Ontario Health Teams: Digital Health Playbook

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Introduction: How to use the Playbook



This Playbook is intended to help Ontario Health Teams* build their digital health plan and capacity. The book is organized into chapters called *Plays*. We recommend that users:



1. Read the Playbook all the way through first; and



2. Take an iterative approach to implementing the "Plays".

This Playbook is a living document, intended to evolve over time as Ontario Health Teams grow and develop and as new solutions are introduced to Ontario's digital health landscape. To do this, we need your feedback!

Please send any comments or suggestions for future revisions to OHTdigital@ontario.ca.

^{*}When used in this Playbook, the term "Ontario Health Teams" or "OHT" means teams of providers that have placed themselves on the OHT readiness path in Ontario, including those teams that are "In Discovery", "In Development", "OHT Candidate", "Designated OHT". While this Playbook is intended for those teams invited to complete a Full Application, any team of providers, regardless of readiness, may find the information in this Playbook helpful.

Introduction



Ontario Health Teams (OHTs) are part of the government's plan to build a modern, sustainable, and integrated health care system that connects health care providers and services focused on the patient. In order to realize this vision, OHTs will require modern technologies, tools and information that support patient-centred care.

Digital health is at the core of a more connected and integrated health care system. Thus, OHTs will become key to fostering local innovation and provincial digital health advancements.

This Playbook details how the adoption and use of digital health solutions can help OHTs meet their clinical and performance objectives. The document provides a general overview of the types of tools, requirements and policy directions that will guide the creation of digitally-enabled OHTs. The Playbook also provides information on the supports offered by specific digital health delivery organizations, namely, Cancer Care Ontario, eHealth Ontario, Health Shared Services Ontario, OntarioMD, and the Ontario Telemedicine Network.

The digital health services and supports being provided to OHTs represent the contributions of multiple delivery organizations, including those who will soon become a part of Ontario Health (i.e. eHealth Ontario, Health Shared Services Ontario and Cancer Care Ontario).

The Playbook is intended to support OHTs in the development of their digital health plans during the full application stage. However, it can be useful to OHTs at any stage of development.



Introduction: How to use the Playbook



For users who have already read the Playbook in full, and are looking to refresh their knowledge, or for those reading the Playbook with a specific focus in mind, we have also created "Focused Views" highlighting key sections of interest for the groups below.

For Executives



For OHT executives looking to know how digital health will enable integrated health care, and find summaries of the resources in the Playbook.

For Providers



For health care providers in an OHT looking for information on the benefits of digital health and the tools available to providers in an OHT environment.

For Digital Health Specialists



For digital health specialists looking to create and implement a digital plan in the OHT environment.



Play 1: What Can Digital Health Do for You?



In this Play, OHTs can:

- Learn about digital health and the digital health landscape in Ontario
- Understand the capabilities and benefits of digital health for providers and patients.
- Learn how the Playbook can support your digital health plan

Pages that are part of a specific "Focused View" will have their respective symbol shown at the bottom of the page.

Click on any of the symbols to go to the Focused Views: Table of Contents page (see next page). delivering of digital hare. Click the title bar on any page to return to the <u>Table of Contents</u> page.

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systems that allow them to focus their efforts on providing care directly to patients while minimizing time lost to inefficient and redundant reporting activities. The creation of OHTs presents a unique opportunity to consider how digital technologies can support patient journeys and efficient clinical processes.





Focused Views: Table of Contents



Click on the symbol for each Play for a quick link to each section.

For Executives



For Providers









For Digital Health Specialists















A Note for Digital Health Vendors



For Digital Health Vendors

Ontario's digital health ecosystem includes a wealth of innovative digital health vendors, from emerging start-ups to large-scale multinational firms.

Vendors are critical in enabling OHTs, providing technologies and expertise that power clinical systems, integration solutions, patient access channels, analytics capabilities, and more. At the same time, it is crucial that any technologies or services that are deployed in OHTs have the ability to work with the larger digital health ecosystem in Ontario so that OHTs do not run the risk of becoming "digital silos" where systems can't talk to those of other OHTs, and patient information becomes trapped.

We encourage vendors and OHTs to work together in a way that respects the existing, taxpayer-funded provincial services available in the <u>Digital Health Service Catalogue</u> and the standards established in the <u>Digital Health Policy Guidance Document</u> to ensure the interoperability and comparability of technologies across the province.

The Ministry of Health (the "ministry") is also available to answer questions, concerns, or ideas from the vendor community. Please contact OHTdigital@ontario.ca with any inquiries.





List of Plays



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Executive Summaries

Executive summaries for each play in the Playbook.

What Can Digital Health Do for You?

An introduction to digital health, including the landscape of tools and assets available in Ontario.

2



Select Your Suite of Services

A <u>Digital Health Service Catalogue</u> that outlines those provincially funded assets, services and infrastructure services that maintain a major regional or provincial presence and that are available for use by OHTs to satisfy digital health needs and requirements.

3



Supporting an Integrated System

A summary of a set of draft policy directions, including the <u>Digital Health Policy Guidance</u> document, on the implementation and use of digital health tools and assets.

4



Innovate and Try New Things

Considerations for digital health innovation adoption and upcoming potential proof-of-concept projects.

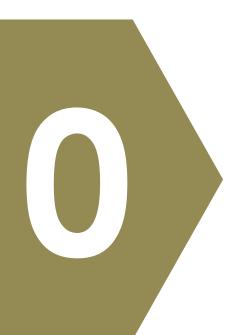
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Assistance for OHTs

Contact information for any inquiries or assistance.







Executive Summaries



Play 1: What Can Digital Health Do for You?



In this Play, OHTs can:

- Learn about digital health and the digital health landscape in Ontario.
- Understand the capabilities and benefits of digital health for providers and patients.
- Learn how the Playbook can support your digital health planning.

OHTs will provide a new way of organizing and delivering services in local communities to enable integrated health care. The right combination of digital health services and tools will be key to supporting seamless and efficient delivery of care.

- **For providers**, digitally-enabled OHTs offer clinicians and health service providers access to the information they need, when they need it, and more efficient channels for delivering services.
- For patients and caregivers, this means having access to their patient health information and the choice to engage with providers in person or via digital tools, such as video visits and secure messaging. Through digitally-enabled OHTs, when a patient goes from one care setting to another, their information will follow them.
- For organizations, this means equipping teams with workflow tools and business information
 systems that allow them to focus their efforts on providing care directly to patients while
 minimizing time lost to inefficient and redundant reporting activities. The creation of OHTs
 presents a unique opportunity to consider how digital technologies can support patient journeys
 and efficient clinical processes.





Play 2: Select Your Suite of Services





In this Play, OHTs can:

 Understand what digital assets, tools, programs, and services are available to OHTs through the Digital Health Service Catalogue.

Ontario's digital health delivery organizations provide tools and services that improve outcomes for patients and providers. From virtual care to health data collection and sharing, these solutions and assets lead to increased clinical value and better health care system integration.

In addition, OHTs can always choose to utilize digital health workflow tools to leverage and maximize the value of existing assets, strengthen reporting and analytics, and meet privacy and security requirements to protect patient health information.

In collaboration with provincial digital health delivery organizations, the ministry has developed Ontario's <u>Digital Health Service Catalogue</u>. The Catalogue ensures OHTs are able to leverage and adopt existing technologies that support their digital health objectives.





Play 3: Supporting an Integrated System



In this Play, OHTs can:

- Understand the provincial digital tools and maturity targets for all OHTs.
- Find summaries of solution-specific as well as general policy directions that guide the procurement, implementation, and evaluation of digital health solutions.

To ensure that the basic tools and functionalities are in place to support integrated care delivery, the ministry has compiled a set of minimum recommended requirements for prospective OHTs and a list of policy directions that guide them when selecting, procuring, implementing and evaluating digital health tools. Detailed information on the draft policy directions can be found in the Digital Health
Policy Guidance* document. Summaries of all the policies can be found in this Play.

These policy directions are designed to ensure that OHTs will be able to leverage and support provincial digital assets and data for coordinated, comprehensive, and seamless care. They also provide guidance to ensure that OHTs have flexibility in selecting local solutions, while maintaining interoperability and comparability of technologies across the system.

*In development and for discussion.





Play 4: Innovate and Try New Things



In this Play, OHTs can:

- Learn about key considerations for adopting innovative digital health technology.
- Consider proof-of-concepts the ministry is interested in helping to advance.

Technology is ubiquitous and constantly improving to better serve consumers and their needs. Moving beyond what is contained in the <u>Digital Health Service Catalogue</u>, OHTs have the flexibility and opportunity to leverage innovative digital health technologies to provide better and more efficient care, enable better health care outcomes, and address the local needs of their patients and providers.

Ontario has a rich ecosystem of digital health innovators, creating products that improve the delivery of health care and the patient experience based on cutting edge technologies. The ministry is interested in exploring various innovative ideas, and could support OHTs looking to work with the ministry on a limited selection of proof-of-concept projects.





Play 5: Assistance for OHTs





In this Play, OHTs can:

- Learn what guidance and support is available.
- Understand how they can contact the ministry for further information.

The ministry will support OHTs through a centrally coordinated program of supports. This model will include resources and supports in key areas aligned with the OHT model, such as: digital health, provincial data, analytics, information management and privacy, governance and leadership, patient partnership and community engagement, evidence translation, and primary care engagement.

Given the foundational role that digital health will play in transforming health care delivery in Ontario, the ministry, along with its specified digital health delivery organizations, intend to further support OHTs through a shared services and support model. This support includes:

- Assisting OHTs with crafting a digital plan to support integrated care;
- Priority access to the contents of the <u>Digital Health Service Catalogue</u>;
- An integrated service desk function and the provision of technical support; and
- Coordinated delivery of change management services.





What Can Digital Health Do for You?



Play 1: What Can Digital Health Do for You?



In this Play, OHTs can:

- Learn about digital health and the digital health landscape in Ontario.
- Understand the capabilities and benefits of digital health for providers and patients.
- Learn how the Playbook can support your digital health planning.

OHTs will provide a new way of organizing and delivering services in local communities to enable integrated health care. The right combination of digital health services and tools will be key to supporting seamless and efficient delivery of care.

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What does the Ontario Digital Health Landscape look like?



Ontario's digital health infrastructure consists of solutions and assets that lead to increased clinical value and better health care system integration. The landscape of options ranges from provincially available data and credentialing tools to locally customized suites of virtual care and access solutions. The following describes the types of digital solutions that OHTs will be able to leverage:



Foundational provincial digital systems

All OHTs will be connected to the foundational provincial digital systems. Through the use of ONE ID, authorized service providers can contribute to, and access patient data stored in provincial health data repositories and directories.



Digital enhancements for provider workflow and records management

OHTs are encouraged to take advantage of a number of solutions deployed across Ontario that support better communication and transitions in care, leaner workflow, and greater clinical standardization. Although all OHTs will leverage the solutions listed under this category, how they are deployed will depend on the configuration of the OHT.



Provider and patient tools for digital access to care

The third category of digital solutions includes provider and patient-facing tools that offer options in how care can be accessed. This includes patient portals, secure messaging, virtual provider visits, and virtual consultations. OHTs can adopt and deploy a suite of these services customized to their local needs and environment.





Digital Health Plan

Developing a Digital Health Plan

The ministry's overarching goals are to provide better patient and caregiver experiences, better patient and population health outcomes, better value and efficiency, and better provider experience. The successful implementation of the OHT model will require groups to develop and implement effective digital health plans.

As part of this process, OHTs are going to need to undertake the following:

- 1. Understand and articulate the current state of clinical workflows and processes for those organizations that will be part of the OHT, and their use of supporting digital health technology.
- 2. If necessary, redesign clinical workflows and undertake process redesign activities to support integrated care delivery.
- 3. Describe the end state of digital health for the OHT.
- 4. Outline the key activities to be undertaken over the next 12 months to begin to move from the current state to the end state.

This Playbook provides guidance for all of the above.







Digital Health Plan

Developing a Digital Health Plan (cont.)

The ministry aims to enable OHTs to be innovative and flexible while also ensuring that a minimum set of data can flow provincially. The Playbook outlines the different mechanisms that OHTs should use to achieve these goals. In some circumstances, this will entail the adoption of common core solutions, while in other cases OHTs will have local flexibility within an interoperable, standards-based framework.

As part of the OHT support model, the ministry and delivery organizations will be available to assist OHTs in developing their up-front digital health plan to guide this work moving forward.







After experiencing shortness of breath, chest pain, and irregular heartbeat, Celeste goes to her local hospital, where she is closely monitored. Digital health services allow her to experience a seamless health care journey from one point of care to the next.



At the ER,



discharge,



At her follow-up,



the doctor reviews the results and discharges Celeste, but recommends a follow-up with her family

a Care Navigator helps Celeste create a care plan to maintain her health and well-being.

Celeste's family physician recommends that she see a cardiologist.

Celeste receives helpful advice to manage her condition.

Hospital Admission

physician.

Hospital Discharge

Follow-up

Referral

- The ER doctor is able to access provincial data to check her medication records for drug interactions. Having her records in the Hospital **Information System** means Celeste doesn't need to tell her story multiple times.
- eNotification alerts Celeste's family physician that she has been admitted to the hospital.

- The Care Navigator uses CHRIS to assess Celeste's current situation and creates a personalized home care plan.
- eNotification lets the family physician know that she has been discharged, and the doctor's office follows up to schedule an appointment.
- Celeste is able to book an appointment with her family physician from her patient portal.

- HRM provides the family physician with Celeste's hospital discharge report.
- As Celeste exhibits hypertension, the family physician is able to use OMD's i4C Dashboard to ensure her blood pressure will be monitored and tracked in accordance with best-practice guidelines.
- eReferral helps the family physician quickly find a cardiologist close to Celeste's home, for additional follow up.

- Using a provincial viewer, the cardiologist is able to see Celeste's recent test results and drug information, and so is able to avoid issuing duplicative tests.
- The cardiologist offers the option to participate in a digital self-management and remote monitoring program, which will give Celeste greater control over her condition and help to keep her out of hospital.





After an impressive basketball season, Liam feels sharp pain in his left shoulder and an orthopedic surgeon determines that surgery is the best treatment option. Using various digital health services, Liam is able to navigate a personalized and effective health care system.



At the clinic,



At the Hospital,



At home,



At his followup,

Liam's family physician believes he may be a candidate for shoulder surgery. the surgeon can easily access the necessary information to ensure a safe procedure.

Liam can focus on his rehabilitation through a **virtual care program**.

Liam has a **virtual video visit** with the surgeon to ensure a healthy recovery.

Initial triage & assessment

Instead of waiting months for a preliminary consultation with an orthopedic surgeon, the family physician uses eConsult to contact a specialist who confirms, within two days, that Liam needs surgery.

 eReferral then allows the family physician to quickly find an orthopedic surgeon close to Liam's home, thereby significantly reducing his wait time for surgery.

Surgery

- Prior to surgery, the specialist accesses a provincial viewer to review Liam's medical history.
- eNotification lets Liam's family physician know when the procedure is over and when Liam has been discharged from the hospital.

Hospital Discharge

- Liam uses his patient portal to contact the surgeon and ask about his upcoming therapy session.
- Using ONE ID, Liam's surgeon responds quickly to his questions through secure online messaging.

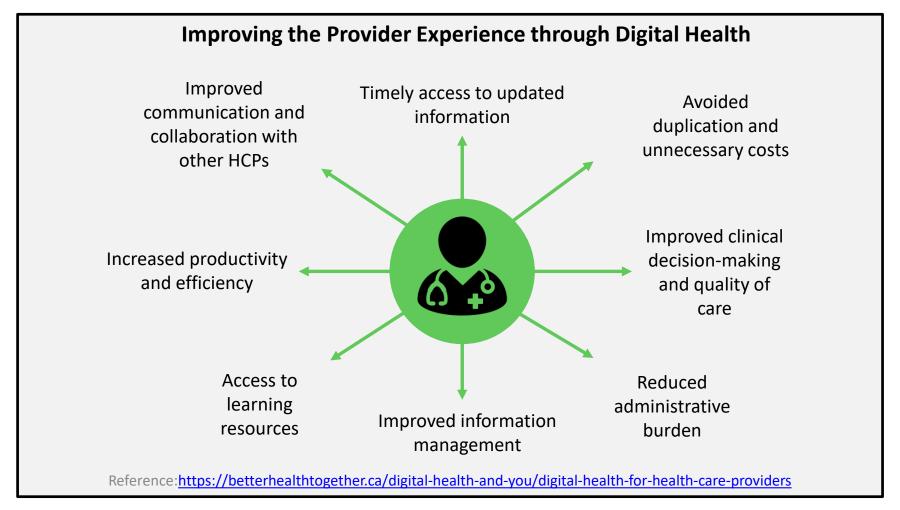
Post-Operative Follow-up

- During the virtual video visit, the surgeon confirms the wounds are healing well and that there is no need for an in-person follow-up.
- The surgeon updates Liam's digital health record in near real-time, meaning both the family physician and Liam can access the updated information electronically.



THE PROVIDER EXPERIENCE – OHT Future State

Though adjusting clinical practices can be overwhelming at times, digital health will enable OHTs to catalyze the skills, knowledge and experience of hard-working professionals across the health care system. The ministry is dedicated to ensuring health care providers across Ontario experience the multiple benefits of fully integrated care.







Facilitating Integrated Care

Alignment with Relevant Provincial Digital Health Directions

The success of OHTs will be driven, in part, by establishing an organized approach to the spread and scale of digital health. The contents of the Playbook outline how digital health can help OHTs meet their clinical and financial objectives.

 For a list of services and programs that have been built or procured for use by the Ontario health system, please refer to the <u>Digital Health Service</u> <u>Catalogue</u>, found in Play 2.



• For information on relevant provincial digital health policy directions please see the <u>Digital Health Policy Guidance</u> document, found in Play 3.



• For more information on the considerations for digital health innovation adoption or how OHTs can participate in potential <u>proof-of-concept projects</u> to improve patient and provider experience, please refer to Play 4.









Select Your Suite of Services



Key Take-Aways

Play 2: Select Your Suite of Services





In this Play, OHTs can:

 Understand what digital assets, tools, programs, and services are available to OHTs through the Digital Health Service Catalogue.

Ontario's digital health delivery organizations provide tools and services that improve outcomes for patients and providers. From virtual care to health data collection and sharing, these solutions and assets lead to increased clinical value and better health care system integration.

In addition, OHTs can always choose to utilize digital health workflow tools to leverage and maximize the value of existing assets, strengthen reporting and analytics, and meet privacy and security requirements to protect patient health information.

In collaboration with provincial digital health delivery organizations, the ministry has developed Ontario's <u>Digital Health Service Catalogue</u>. The Catalogue ensures OHTs are able to leverage and adopt adopt existing technologies that support their digital health objectives.







Introducing the Digital Health Service Catalogue

Effective and integrated digital health delivery requires collaboration across the health care system. Ontario's digital health delivery organizations provide tools and services that improve outcomes for patients and providers. From virtual care to health data collection and sharing, Ontario's digital health infrastructure consists of solutions and assets that lead to increased clinical value and better health care system integration.

A number of provincially-available digital health tools and services are available in the <u>Digital Health</u> <u>Service Catalogue</u> to help OHTs to meet their digital health objectives. When considering any digital solution, OHTs are asked to refer to relevant provincial policy directions to ensure that they meet provincial standards prior to procurement.







How to use the Digital Health Service Catalogue

The <u>Digital Health Service Catalogue</u> is designed to assist OHTs with understanding the digital landscape in the province. It lays out those provincially funded assets, services, and infrastructure services that maintain a major regional or provincial presence and that are available for use by OHTs to satisfy digital health needs and requirements.

The Catalogue will help OHTs:

- 1. Understand what is available;
- 2. How they could benefit from using a particular asset or service; and
- 3. Who to contact to learn more about a particular asset or service.

The ministry will assist OHTs in liaising with applicable digital health delivery organizations for items listed in the Digital Health Service Catalogue.

The Catalogue is complimentary to the <u>Digital Health Policy Guidance</u> and the two documents should be read in tandem. Whether selecting digital health solutions from the Catalogue or procuring solutions not contained in the Catalogue, OHTs are encouraged to work with the ministry to ensure their implementation and deployment efforts are appropriately guided by the standards established in the Digital Health Policy Guidance Document.







The Digital Health Service Catalogue

Please read the Catalogue thoroughly to ensure that your OHT leverages provincial offerings. Each item included in the Catalogue will provide the following:



➤ A description of the tool, service or asset



Intended end users of the item



> The sector(s) served



Considerations guiding the use of the item within the context of OHTs



Which of the digital health policies are applicable

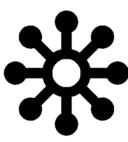


Relevant contacts for additional information or support









Supporting an Integrated System



Key Take-Aways

Play 3: Supporting an Integrated System



In this Play, OHTs can:

- Understand the provincial digital tools and maturity targets for all OHTs.
- Find summaries of solution-specific as well as general policy directions that guide the procurement, implementation, and evaluation of digital health solutions.

To ensure that the basic tools and functionalities are in place to support integrated care delivery, the ministry has compiled a set of minimum recommended requirements for prospective OHTs and a list of policy directions that guide them when selecting, procuring, implementing and evaluating digital health tools. Detailed information on the draft policy directions can be found in the Digital Health
Policy Guidance* document. Summaries of all the policies can be found in this Play.

These policy directions are designed to ensure that OHTs will be able to leverage and support provincial digital assets and data for coordinated, comprehensive, and seamless care. They also provide guidance to ensure that OHTs have flexibility in selecting local solutions, while maintaining interoperability and comparability of technologies across the system.





^{*}In development and for discussion.



Supporting an Integrated System



OHT Readiness Criteria

- Confirmed commitment to offer one or more virtual care services to patients.
- A plan has been proposed to provide patients with some digital access to their health information.
- Confirm plan to share information across OHT partners for the purposes of integrated care delivery, planning, and quality improvement.
- Identify existing digital health gaps and confirm commitment to develop a plan (with provincial support, if desired) to address them as a priority.
- Demonstrate that at least some partners have the ability to adopt and provide some digital options for decision support (e.g., computerized physician order entry), operational insights, population health management, and track and report on key indicators.
- Identify a single point of contact for digital health activities moving forward.

Year 1 Expectations

- Expanded virtual care offerings from baseline, and 2-5% of Year 1 patients who received care from the OHT had a virtual encounter in Year 1.
- 10-15% of Year 1 patients who received care from the OHT digitally accessed their health information.
- Harmonized Information Management (IM) plan in place.
- Increased adoption of relevant digital health tools amongst the OHT partners (e.g. ONE-ID, provincial clinical viewers, eConsult).
- Plan is in place to streamline and integrate point-ofservice systems consistent with provincial frameworks and to use data to support enhanced patient care and population health management.
- Complete and accurate reporting in place on required indicators.

During Year 1, OHTs will work closely with the ministry to assess digital health and IM gaps. OHTs will be required to develop appropriate digital health and implementation plans, which includes participation in a digitally-focused evaluation with an IM component.





How will OHTs deliver integrated digital health care?

In order to ensure a consistent and coordinated approach to deploying digital supports across the province, the ministry has established a set of draft policy directions that will guide implementation efforts and the use of digital health tools and assets. OHTs will be asked to align with the following:

- 4 general digital health policy directions to support the implementation and/or ongoing use of all digital health systems:
 - Digital Health Information Exchange Policy
 - Digital Health Investment and Value for Money Policy
 - Digital Health Privacy and Security Policy
 - Digital Health Reporting and Performance Policy
- **3 system-specific policy directions** to guide implementation activities for those OHTs that are undertaking new procurements or significant upgrades of any of the following:
 - Point of service systems (e.g. electronic medical record systems and hospital information systems (HISs))
 - Patient digital access to care, such as:
 - Virtual visits

- Patient self-management tools
- Online appointment booking
- eServices









Digital Health Policies

General Digital Health Policy Directions

General Digital Health Policy Directions (Draft)	Summary
Digital Health Information Exchange Policy	Recommended requirements for the use of modern technical approaches (e.g. FHIR-based application program interfaces (APIs) and web services) by solutions used within an OHT in order to promote efficiency and seamless access to patient records.
Digital Health Investment and Value for Money Policy	Guidance to ensure that health service providers achieve value for money from their procurement activities, and that vendors are reimbursed for the outcomes that their products and services deliver. This policy also leverages local, regional, and/or provincial purchasing power to create value in the healthcare system, promote successful innovations to spread, and to move away from localized purchases that are based on cost and technical factors alone.
Digital Health Access, Privacy and Security Policy	Guidance for OHTs in developing and operationalizing information practices relating to the collection, use and disclosure of personal health information (PHI) in compliance with the Personal Health Information Protection Act (PHIPA).
Digital Health Reporting and Performance Policy	Recommended requirements for OHTs to report against a limited number of indicators, to ensure investments in Ontario's health care system are transparent and accountable.







Digital Health Information Exchange Policy

Background

The province's digital health infrastructure is being improved by adopting modern technical standards and investing in projects that increase the interoperability, technical capacity, and value of existing digital health assets.

Policy Direction

This "Digital Health Information Exchange Policy" guides all of the province's digital health delivery organizations who have control or custodianship of digital health assets that either hold or enable access to Ontarians' PHI to:

- 1. Make connections to their digital health assets available via APIs based on the HL7 FHIR standard, where appropriate, so that these assets may exchange recognized and meaningful data.
- 2. Make available those APIs through modern web services that enable connections to their respective digital health assets.
- 3. Make available development testing environments, and relevant and appropriate technical support documentation for the APIs in publicly available formats (e.g. posted on their website).
- 4. Modernize relevant digital health assets under their control or custodianship according to prescribed technical standards. This modernization includes adopting modern standards for data exchange, data content and health terminology standards (i.e. HL7 FHIR, SNOMED CT), and web applications (i.e. SMART on FHIR).







Digital Health Information Exchange Policy (cont.)

Policy Direction (cont.)

5. Make available a minimum data set through standardized APIs to ensure continuity of care across various care and practice settings, and to allow for more HSP and patient choices in accessing and exchanging health information.

Rationale for this Policy Direction

Ontario's aspirations for an integrated health system face a number of practical barriers for which policy direction on standards is required, including lack of interoperability across provincial data assets and clinical systems, and fragmentation that limits consistent and reliable integration of health information.

The anticipated impact of this policy is more flexibility in ways people and HSPs access patient health information, improved information sharing between HSPs, and greater value for money and increased utility of government investments.

For further details, please refer to the **Digital Health Policy Guidance** document.







Digital Health Investment and Value for Money Policy

Background

Procurement is a complex and resource intensive task with documents and processes that are lengthy, prescriptive, and overly burdensome for both purchasers and vendors. There is an opportunity to develop a policy that aligns supply chain management with the delivery of stronger patient-centred services and integrated care across the system enabled by digital technologies.

Policy Direction

This "Digital Health Investment and Value for Money Policy" (the policy) guides the province's health service providers to:

- 1. Understand clinical workflows and map opportunities where digital solutions can add value, improve effectiveness or realize efficiencies. Such activities should be included within the planning process prior to undertaking the procurement of new digital health tools.
- 2. Abide by the principles of the Broader Public Sector Procurement Directive (e.g. accountability, transparency, value for money, quality service delivery and process standardization) and any future direction from the Ministry of Government and Consumer Services regarding Broader Public Sector procurement, where appropriate.
- 3. Comply with the Interim Measures (effective March 18, 2019) of the Ontario Public Service Procurement Directive, where appropriate and as updated from time to time.







Digital Health Investment and Value for Money Policy (cont.)

Policy Direction (cont.)

- 4. Consider first those provincially funded digital health assets, services, and infrastructure services listed in the Digital Health Service Catalogue when assessing digital health solutions. If an OHT determines that their requirements cannot be sufficiently addressed by a particular resource included in the Catalogue, then that OHT is encouraged to work with the ministry to ensure their procurement of a market-available solution is appropriately guided by the standards established in the Digital Health Policy Guidance Document.
- 5. Engage in value-based procurement, which considers stating the problem that needs to be solved rather than including technical language for solutions in procurement documents.
- 6. Leverage regional and provincial services (e.g. shared services organizations, vendor of record agreements, framework agreements, etc.) to ensure procurement expertise, best practices in sourcing, and value for money.
- 7. Include provisions within competitive procurement documents and agreements that request a benefits evaluation to be completed by the ministry through the Centre for Digital Health Evaluation (or equivalent) and then assessed by the ministry's Investment Management Framework.
- 8. Consider incentive-based reimbursement models (e.g. models that pay for outcomes and share risk) for non-commodity digital health innovations.
- Develop extensible agreements that state how future purchasers may participate in the procurement, which includes parameters around terms, pricing and at what point the term becomes "stale".

 Ontario



Digital Health Investment and Value for Money Policy (cont.)

Rationale for this Policy Direction

This policy is intended to ensure that health service providers achieve value for money from their procurement activities, and that vendors are reimbursed for the outcomes that their products and services deliver. This policy also leverages local, regional and/or provincial purchasing power to create value in the healthcare system, promote successful innovations to spread and to move away from individual purchases that are based on cost and technical factors alone.

For further details, please refer to the <u>Digital Health Policy Guidance</u> document.







Digital Health Access, Privacy and Security Policy

Background

Ensuring the privacy and security of PHI is an obligation for health information custodians and service providers under the Personal Health Information Protection Act, 2004 (PHIPA), and is key to maintaining Ontarians' confidence in digital health and a connected health system. While progress has been made, there is still significant friction as a result of health care providers' uncertainty in interpreting the PHIPA to manage the risk of sharing information, and the resulting inconsistencies in health information management practices across the system.

Policy Direction

This "Digital Health Privacy and Security Policy" is intended to guide OHTs in developing and operationalizing information practices relating to the collection, use, and disclosure of PHI in compliance with the PHIPA.

- HICs and their agents participating within an OHT are encouraged to harmonize their privacy and security policies, procedures, and practices amongst themselves with respect to operations conducted within the governing framework of the OHT.
- 2. HICs and their agents participating within an OHT are advised to take reasonable steps to ensure that patients understand any information practices that relate to the operation of the OHT, and how these may differ from the practices of the HIC when it is operating independently.







Digital Health Access, Privacy and Security Policy (cont.)

Policy Direction (cont.)

- 4. OHTs may wish to leverage OntarioMD Privacy and Security Training and its associated resources to support their understanding and compliance with privacy and security requirements.
- 5. OHT participants are recommended to establish and maintain policies, procedures, practices, and agreements that are necessary to enable them to comply individually and collectively with their legal and regulatory obligations (including those under the PHIPA) and with other relevant policies such that an individual served by an OHT may make a request for access, correction or a consent directive just once to any OHT participant, and receive a response that addresses any affected PHI, regardless of which participants are custodians of that PHI. Further, such an individual in respect to their PHI, may pose a question, make a complaint or report a suspected breach of privacy or security to any OHT participant, and they will receive one response, regardless of how many participants may need to contribute to that response.
- 6. OHT participants are advised to collectively identify and mitigate privacy and security risks and areas of non-compliance in respect of OHT participants' connectivity with provincial digital health assets. OHTs may want to consider establishing a joint function for this purpose.







Digital Health Access, Privacy and Security Policy (cont.)

Rationale for this Policy Direction

This policy is critical to creating consistent OHT practices for managing the collection, use, and disclosure of PHI so that more HCPs and patients can have seamless access to patient health information in a way that protects individual privacy.

For further details, please refer to the Digital Health Policy Guidance document.







Digital Health Reporting and Performance Policy

Background

The ministry is committed to ensuring investments in Ontario's health care system are transparent and accountable. OHTs are a key player in advancing the digital maturity of Ontario's health care system, and play an important role in tracking progress.

Policy Direction

This "Digital Health Reporting and Performance Policy" (the policy) guides all digital health delivery organizations to:

- 1. Report annually on the sets of digital health solutions being developed, procured, and/or otherwise deployed within the OHT to improve Ontario's digital health maturity and interoperability (e.g. OHTs will be asked to report on digital health assets in which they are investing to ensure the province has a centralized understanding of Ontario's digital health landscape); and
- 2. Report on a limited set of performance and accountability measures on a quarterly basis to facilitate provincial tracking of digital health maturity.

Please note that specific indicators are under development. All reporting will be done in alignment with an OHT performance measurement framework and broader ministry reporting.







Digital Health Reporting and Performance Policy (cont.)

Rationale for this Policy Direction

The province relies on local delivery organizations to improve Ontario's digital health by adopting and using digital health solutions. While data about some digital health solutions is available from provincial delivery organizations (e.g., Ontario Health), for solutions implemented based on local choice, local data is necessary to maintain a fulsome understanding of digital health maturity. By aligning digital health performance measurement and reporting across the province, the province can assure accountability and ensure to make the strategic adjustments necessary to continue to enable and support the use of digital health assets to improve healthcare in Ontario.

For further details, please refer to the <u>Digital Health Policy Guidance</u> document.









Digital Health Policies

System-Specific Policy Directions

System-Specific Policy Directions (Draft)	Summary
Clinical Systems Policy	Recommended requirements that OHTs are advised to meet in order to ensure their point-of-service clinical system allows providers to access relevant health information, enables patients to access their own PHI, and facilitates data extraction for system-level performance measurement
Patient-Facing Digital Health Policy	Guidance on the minimum set of functionalities for their patients to enhance how and when they receive care and access their PHI.
eServices Policy	Supports OHTs in offering eServices (i.e. eConsult and eReferral), and also provides implementation guidance to enhance how providers communicate to support transitions in care. Guidance is also provided to technology service providers to support them in aligning with provincial standards.







Clinical Systems Policy

Background

A clinical system is an information system that allows providers to access patient data for the purposes of providing care. Clinical systems also provide embedded clinical best practices and standards. In order to ensure patients receive integrated, coordinated care, there is a need to develop principles to support OHTs in considering their clinical system strategy and future implementations.

Policy Direction

The clinical systems policy provides recommendations that OHTs may consider **when planning**, **procuring**, **upgrading**, **or implementing** a clinical information system:

- 1. **Procurement:** Procured systems will be expected to incorporate the most current version of provincial standards (e.g. OntarioMD Certification). All HIS procurements and significant upgrades should be for a Provincial Reference Model (PRM) where one exists; if one does not exist, the OHT is advised to work with the ministry in considering a new PRM for the vendor's solution.
- **2. Technology:** Clinical systems are envisioned to leverage a mature and reliable hosting model (e.g. cloud-based, Application Service Provider (ASP) model) with any new systems that are to be locally hosted being accompanied by a business case supporting the approach. The OHT is advised to develop a plan to move towards a smaller number of instances in each sector within the OHT and submit it to the ministry.







Digital Health Policies

Clinical Systems Policy (cont.)

Policy Direction (cont.)

- **3. Standardization:** Each OHT is advised to develop a clinical standards framework, and create a process for incorporating the latest evidence into frontline systems. OHTs will be requested to align their clinical systems to existing provincial standards, and to contribute to provincial governance processes in developing clinical, technical, and business standards that can be embedded in clinical systems.
- **4. Data:** Any governance structure that an OHT has in place would benefit from having an active data oversight function that ensures appropriate availability, use, and quality of the data within their systems, includes an audit function if appropriate, and aligns to any applicable provincial data governance body.
- **5. Implementation:** In the near-term, instances of new systems are encouraged to be shared between organizations with OHTs actively consuming and contributing to any existing or new provincial systems.

In planning for and implementing these systems, the ministry will support OHTs in assessing the most applicable and relevant supports available in order to ensure they are able to meet the requirements defined in this policy.







Clinical Systems Policy (cont.)

Rationale for this Policy Direction

This policy defines the requirements that OHTs are recommended to meet in order to ensure their clinical systems allow providers and organizations to access relevant health information; enable patients to access their own PHI; facilitate data extraction for OHT and system-level performance measurement; and reduce costs by leveraging shared systems and standards.

For further details, please refer to the Digital Health Policy Guidance document.







Patient-Facing Digital Health Policy

Background

Patient-facing digital health refers to the use of digital tools that make it easier and more convenient for patients and their caregivers to interact with Ontario's health care system, anytime and anywhere they need it. Through a patient-facing digital health policy, a wide range of health care services will be made available through digital platforms that are more convenient for patients, just as consumers have come to expect in other industries such as banking and travel.

Policy Direction

This policy for patient-facing digital health solution adoption encourages all OHTs and/or other provider groups to offer a minimum set of functionalities to their patients, and also provides implementation guidance. At minimum, OHTs are recommended to achieve functionality in the following areas:

- Virtual Visits: Traditional clinical care interactions and follow-ups between patients and providers conducted through digital channels. Modalities include video visits, audio call, and electronic messaging.
- 2. Patient empowerment and self-management: Patients are able to access their own PHI and use digital self-care tools and programs to support self-management and remote monitoring of their condition. Modalities include patient access channels, mobile apps, remote monitoring platforms, and web portals.







Patient-Facing Digital Health Policy (cont.)

Policy Direction (cont.)

3. Online appointment booking: Similar to the consumer experience Ontarians have come to expect, patients are able to manage administrative activities digitally at the practice-level for all providers and sectors and book appointments online.

The ministry has developed implementation guidelines to ensure that, among other factors, the patient experience is contemplated (e.g., minimizing the number of portals/solutions for the required functionalities), OHTs leverage expertise and best practice, and other provincial standards and requirements are considered.

Rationale for this Policy Direction

A policy for enhancing patient-facing digital health will ensure that all Ontarians have equitable access to choose digital health options for receiving care. This policy will help patients, and their families and caregivers, access and control how and when they receive care and access their own PHI, enabling them to become better partners in managing their own health.

For further details, please refer to the Digital Health Policy Guidance document.









eServices Policy

Background

At the end of a clinical interaction, clinicians undertake many transactional processes to obtain services for patient care, such as referring patients to other providers, prescribing drugs, ordering lab tests or imaging, and applying for supports such as assistive device coverage. Conventional processes for these activities are largely fax-and-paper-based, resulting in significant administrative burden and provider burnout, and patients falling through the cracks and/or facing long wait times due to untraceable processes.

The ministry is currently working to develop an eServices program that would treat these clinically related activities as part of a holistic provider workflow, and build a technical architecture that facilitates interoperability between different solutions. The ministry has already invested in in eConsult and eReferral, which would be the first initiatives in scope of this program due to their track record of success in improving health system integration and smoother handoffs between care settings. eConsult enables primary care providers (e.g. family physicians and nurse practitioners) to engage in a secure electronic dialogue with specialists (community-based or hospital-based) around patient care. eReferral digitizes the traditionally paper-based fax referral process, which results in shorter wait times, fewer inappropriate referrals, and higher quality referrals.







eServices Policy (cont.)

Policy Direction

Under development

Implementation expectations for the near term are that OHTs align with current provincial programs and direction:

- eConsult: Participation in the Provincial eConsult Program, led by the eConsult Centre of Excellence, hosted on the OTNhub.
- **eReferral**: As the first approach, OHTs should validate if relevant programs currently available (e.g., the System Coordinated Access (SCA) Program) meet their needs. Where OHTs choose to deviate from these programs, ministry consultation is highly recommended.

This would help minimize the proliferation of other technology solutions which may exacerbate the existing fragmentation in the technology landscape.

The ministry's emerging provincial eServices program would provide additional guidance for further expansion of eConsult and eReferral, as well as additional initiatives for implementation

For further details, please refer to the Digital Health Policy Guidance document.







Innovate and Try New Things



Key Take-Aways

Play 4: Innovate and Try New Things



In this Play, OHTs can:

- Learn about key considerations for adopting innovative digital health technology.
- Consider proof-of-concepts the ministry is interested in helping to advance.

Technology is ubiquitous and constantly improving to better serve consumers and their needs. Moving beyond what is contained in the <u>Digital Health Service Catalogue</u>, OHTs have the flexibility and opportunity to leverage innovative digital health technologies to provide better and more efficient care, enable better health care outcomes, and address the local needs of their patients and providers.

Ontario has a rich ecosystem of digital health innovators, creating products that improve the delivery of health care and the patient experience based on cutting edge technologies. The ministry is interested in exploring various innovative ideas, and could support OHTs looking to work with the ministry on a limited selection of proof-of-concept projects.







Innovative Objectives

OHTs are encouraged to take a holistic approach to implementing innovative digital health technology projects. OHTs are advised to consider innovative digital tools that achieve the goals of the quadruple aim:

- 1. Improved health outcomes
- 2. Improved patient experience
- 3. Reduced costs
- 4. Increased provider satisfaction

When assessing new digital health solutions, OHTs are expected to work collaboratively with the targeted clinical users and patients to ensure that the proposed technologies meet their needs. Other factors, such as easy integration into existing care pathways, and the level of specialized support for deployment and adoption are also to be considered.







Key Supports for Innovation

The ministry recognizes the importance of innovation in the health care sector. Consequently, the ministry and the specified digital health delivery organizations will provide the necessary guidance and support for OHTs looking to innovate. Resources and supports available to OHTs include:



The <u>Digital Health Policy Guidance</u> document, which offers a range of key considerations for the selection and adoption of any off-market digital tools, including the ministry's Digital Health Investment and Value for Money Policy (see Play 3 for further information).



The ministry and its partners will support OHTs through a centrally coordinated program of supports. This model will include resources and supports in key areas aligned with the OHT model, such as: digital health, provincial data, analytics, information management and privacy, governance and leadership, patient partnership and community engagement, evidence translation, and primary care engagement.







Proof-of-Concepts

OHTs will have priority access to participate in potential proof-of-concepts, which may include other supports. Interested OHTs are encouraged to reach out to the ministry (contact information provided in play 5) to discuss opportunities.

Priority Areas for Proof-of-Concepts Include:

Patient Digital Identity

— The ministry has identified digital identity, access and authorization (IAA) as a critical enabler to support the success of the OHT model. A modern patient experience in the context of OHTs requires the establishment of a digital IAA mechanism so that patients may access PHI held by OHTs and care services through the use of digital tools.

Population Health

Access to, and analysis of, local population health data can help OHTs to streamline and
prioritize their services for the greatest impact. The ministry is proposing to assist designated
OHTs or prospective OHTs through a number of potential proof-of-concepts that would seek to
improve their ability to capture and utilize data on population health through the use of
innovative digital tools or techniques within an OHT.







Proof-of-Concepts (cont.)

Clinical System Consolidation

 Consolidation of clinical systems can help to support the goal of seamless information sharing across an OHT. The ministry is proposing to assist early adopter OHTs through a number of potential proof-of-concepts that would seek to improve clinical system capabilities (including through the use of innovative tools or techniques) within an OHT.

Clinical and Data Standardization

— Clinical and data standards are a key enabler of integrated care. This proof-of-concept would focus on such activities as the development, implementation and adoption of a set of clinical standards using digital solutions or tools. Implementation would be across all OHT partners and contain the ability to input and collect discrete and standard data, embedding of clinical standards in clinical systems, and the ability to evaluate data to assess impact on patient care.





Assistance for OHTs



Key Take-Aways

Play 5: Assistance for OHTs





In this Play, OHTs can:

- Learn what guidance and support is available.
- Understand how they can contact the ministry for further information.

The ministry will support OHTs through a centrally coordinated program of supports. This model will include resources and supports in key areas aligned with the OHT model, such as: digital health, provincial data, analytics, information management and privacy, governance and leadership, patient partnership and community engagement, evidence translation, and primary care engagement.

Given the foundational role that digital health will play in transforming health care delivery in Ontario, the ministry, along with its specified digital health delivery organizations, intend to further support OHTs through a shared services and support model. This support includes:

- Assisting OHTs with crafting a digital plan to support integrated care;
- Priority access to the contents of the <u>Digital Health Service Catalogue</u>;
- An integrated service desk function and the provision of technical support; and
- Coordinated delivery of change management services.







Ministry of Health Supports

The ministry intends to support the development of OHTs. Some key examples include:

- Assistance in the crafting of OHT policy and digital plans to support integrated care;
- Assisting OHTs with barrier resolution;
- Supporting privacy and security requirements for OHTs; and
- Developing standards and guidance for OHTs that support information management best practices in data quality, storage, transmission and disclosure.

Additional Supports for OHTs

Identified digital health delivery organizations will be responsible for supporting OHTs though the following means:

- Maintaining provincial digital catalogue services for priority roll out to the OHTs; and
- Service level accountabilities, including:
 - Client education and onboarding;
 - The provision of service;
 - Co-design activities with OHTs where invited; and
 - Any technical support.







Need assistance?



The ministry is dedicated to the successful transformation of health care through the creation of OHTs.

For inquiries and assistance related to digital supports, please contact the Digital Health Division at OHTdigital@ontario.ca.



Health care providers can also leverage the resources available from their professional associations to support with the OHT transition process. Please contact your association for more information.

END OF DOCUMENT





DRAFT IN DEVELOPMENT AND FOR DISCUSSION

The Ministry of Health (MOH)
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Contents

Introduction	2
Digital Health Information Exchange Policy	
Digital Health Investment and Value for Money Policy	
Digital Health Access, Privacy and Security Policy	
Digital Health Reporting and Performance Policy	
Clinical Systems Policy	14
Patient-Facing Digital Health Policy	17
eServices Policy	. 22



Introduction

In order to ensure a consistent and coordinated approach to deploying digital supports across the province, the Ministry of Health ("the ministry") has established a set of draft policy directions that will guide implementation efforts and the use of digital health tools and assets.

Ontario Health Teams (OHTs) will be asked to align with the following draft policy directions.

- Four general digital health policy directions to support the implementation and/or use of all digital health systems:
 - Digital Health Information Exchange Policy
 - o Digital Health Investment and Value for Money Policy
 - o Digital Health Access, Privacy and Security Policy
 - Digital Health Reporting and Performance Policy
- Three system-specific policy directions to guide implementation activities for those OHTs that are undertaking new procurements or significant upgrades of any of the following:
 - Point of service systems (e.g. electronic medical record (EMR) systems and Hospital Information systems (HISs))
 - Patient-facing digital tools such as:
 - Virtual visits
 - Online appointment booking
 - Patient self-management tools (including access to personal health information (PHI))
 - o eServices (e.g., eReferral, eConsult)

How to use the Digital Health Policy Guidance Document

The Digital Health Policy Guidance Document guides how solutions are acquired, implemented or used.

The **four general digital health policy directions** apply to all digital health assets, services or tools used in Ontario, including items from the Digital Health Service Catalogue, and any solutions procured outside of the Catalogue.

The **three system-specific policy directions** apply to particular types of solutions, as outlined in the policies intended to ensure that all solutions procured within these categories have appropriately considered minimum provincial requirements and service levels, while supporting integrated care across the province.

The success of OHTs will be driven, in part, by establishing an organized approach to the spread and scale of digital health. The Digital Health Policy Guidance Document represents an important milestone in establishing a strong foundation for interoperability and collaboration in Ontario.

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The Digital Health Policy Guidance Document

Digital Health Information Exchange Policy

Background

While modest progress has been made in enabling information sharing across Ontario's health system, there is still significant unmet demand for seamless access to integrated patient records in order to improve patient care, streamline provider workflows, and enable value-added uses of data such as population health.

To respond to this demand, the province's digital health infrastructure is being improved by adopting modern technical standards, and investing in projects that increase the interoperability, technical capacity, and value of existing digital health assets.

Making technical systems interoperable through modern technical standards is needed to let health service providers (HSPs), innovators, and ultimately, people access trusted PHI in a frictionless, reliable, and consistent manner. By doing so, the anticipated impact of the policy is a wider selection of digital health tools for people and HSPs to access PHI, improved information sharing, coordination and communication amongst HSPs, and greater value for money and increased utility of government investments.

Policy Direction

Since the full range of Ontario's digital health assets also include ones that are operated by the ministry or its agencies, this "Digital Health Information Exchange Policy" (the policy) guides all of the province's digital health delivery partners – including the ministry and its agencies, OHTs, other funded organizations (e.g. OntarioMD, Ontario Telemedicine Network (OTN)) and those who deliver point of care (POC) systems for use by broader public sector partners (e.g. HIS and EMR vendors, service providers) – who have control or custodianship of digital health assets that either hold or enable access to Ontarians' PHI and care services to:

- Make connections to their digital health assets available via application programming interfaces
 (APIs) based on the HL7 FHIR standard, where appropriate, so that these assets may exchange
 recognized and meaningful data.
- Make available those APIs through modern web services that enable connections to their respective digital health assets.
- Make available development testing environments, and relevant and appropriate technical support documentation for the APIs in publicly available formats (e.g. posted on their website).
- Modernize relevant digital health assets under their control or custodianship according to
 prescribed technical standards. This modernization includes adopting modern standards for data
 exchange, data content and health terminology standards (i.e. HL7 FHIR, SNOMED CT), and web
 applications (i.e. SMART on FHIR).
- Make available a minimum data set through standardized APIs to ensure continuity of care across various care and practice settings, and to allow for more HSP and patient choices in accessing and exchanging health information.



Rationale for this Policy Direction

The government's OHT model of integrated delivery of health care in the province is supported in large part by the Digital First for Health Strategy. As the provincial interoperability framework, this policy is an underlying success factor for the Digital First for Health Strategy, as it seeks to address a number of practical barriers that hinder frictionless access to information by patients and providers alike:

- Lack of interoperability across provincial digital health assets The province's digital health
 assets reside across multiple delivery partners and have all been built to various technical
 standards. Accordingly, there is no established leadership or coordination between delivery
 partners to connect these assets to one another and for third-party applications to connect to
 these digital health assets.
- 2. Lack of interoperability across local clinical systems The local clinical systems used in hospitals (HISs), primary care practices (EMRs), and community care organizations are highly fragmented, with many different vendors and products. While there are some common requirements within sectors, and a recent trend towards consolidation in the HIS space, consistent standards are lacking across sectors making it extremely difficult to integrate patient records or to integrate local systems with provincial ones.
- 3. Fragmentation limiting consistent and reliable integration of health information Information can't follow patients because digital health delivery partners lack clear guidance on why, when and how provincial and HSP-level digital health assets should be made available for consumer access and use.

Stakeholders, including patient groups, delivery partners and vendors, have clearly said they need and want policies and guidance on establishing standards that would serve to address the information needs of HSPs and Ontarians alike. Specifically:

- For patients This policy means better care and more choice in how they can access their health information and health care services. When more delivery partners integrate their digital health assets with one another, and when more innovators are able to connect their products and services to provincial sources of patient health data, patients and the HSPs who serve them are able to access relevant health information in more convenient ways.
- For OHTs and HSPs The improved integration of digital health systems would facilitate information sharing amongst themselves and their patients. This allows for efficiencies in lessening the burden of administrative work, better and safer communication with other HSPs via digital health tools, and improved coordination of health care services.
- For the ministry This policy allows the ministry to get more use out of its digital health investments getting greater value for money, and better meeting the information needs of HSPs and patients through increased interoperability of the province's digital health assets. It also enables the ministry to support innovation and the economy by establishing the technical standards innovators must implement to connect their digital health products and services to provincial health data.



- For digital health delivery partners This policy means eliminating information silos through the integration of systems so that data may flow between delivery partners with greater ease. It also means that delivery partners can get more out of investments made in their digital health assets.
- For EMR and HIS vendors This policy is a step towards bridging the information gap between primary care and the hospital. By establishing the technical standards by which both EMR systems used in primary care and HISs may connect to the province's digital health assets, it also establishes the standard by which EMR systems and HISs may connect to one another and opens the possibility of sharing data between primary care clinics and hospitals.

Implementation

To modernize health care in Ontario and deliver it more efficiently, the connectedness of the province's digital health assets must increase. The development, release, and ongoing support of APIs that enable authoritative connections to digital health assets is intended to become embedded within the scope of each digital health delivery partners' normal business operations and accountabilities.

To align with the policy objectives, digital health delivery organizations are advised to prioritize API development for digital health assets that that either hold or enable access to Ontarians' PHI and care services. Understanding that guidance is required around which data classes their corresponding elements and which terminology standards are recognized in Ontario, this policy acknowledges commonly accepted data classes and elements provided by Health Level Seven International¹, and terminology standards found in the National Immunization Data Dictionary², the Canadian Vaccine Catalogue³, the SNOMED CT® Canadian Edition⁴, and the pan-Canadian LOINC Observation Code Database (pCLOCD)⁵.

To start, the ministry would recommend a minimum data set⁶ containing data classes and their corresponding elements for information exchange within and between OHTs. This minimum data set would include clinical notes, laboratory information, medications, paediatric vital signs, patient demographics, (non-paediatric) patient vital signs, provenance and others.

The ministry will not provide or facilitate unrestricted access to Ontarians' PHI. Care must be taken to responsibly enable and control access to provincial digital health assets, especially those holding PHI – the responsibilities and obligations for all health information custodians (HICs) under the Ontario Personal Health Information Privacy Act (PHIPA) must be upheld. Furthermore, this policy underscores

¹ https://www.hl7.org/fhir/resourcelist.html

² https://infocentral.infoway-inforoute.ca/en/resources/docs/pubhealth/national-immunization-data-dictionary/2692-nidd-version-3

³ https://cvc.canimmunize.ca/en/home

⁴ https://infocentral.infoway-inforoute.ca/en/standards/canadian/snomed-ct

⁵ https://infocentral.infoway-inforoute.ca/en/standards/canadian/pclocd-loinc

⁶ The classes and elements of the minimum data set will be validated as OHTs are formed and may be revised periodically for relevance.



the need for all parties that access PHI held in provincial digital health assets to have appropriate datasharing and legal agreements in place between digital health delivery partners, relevant HICs, patients, and any other party involved in the access and disclosure of PHI.

The ministry recognizes the immense value that private sector innovators bring to the health care system, and is committed to supporting digital health innovation. The ministry understands that providing more opportunity for non-HICs to connect their digital health products and services to provincial digital health assets may increase the risk of exposing PHI to unauthorized audiences. This is why a phased implementation is recommended to make sure that the right amount of planning is done with all digital health delivery partners so that challenges are anticipated, and issues are addressed immediately.

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The Digital Health Policy Guidance Document

Digital Health Investment and Value for Money Policy

Background

Ontario is modernizing its health care system to be more integrated, innovative and patient-centred. This modernization will be supported by digital technologies that allow patients to connect virtually with their care providers and will put the right health information into the hands of patients, caregivers and health care providers at the right time. To accomplish this, it will require HSPs to re-think how their digital services and related infrastructure are organized. This may include the purchase of new and/or updated health information systems, applications and communication technologies.

It is important to ensure that the acquisition of digital health tools does not place an undue burden on OHTs and HSPs, and leverages economies of scale when appropriate to improve value for money. These tools should support provincial strategic objectives, and improve the experience of patients and providers. This policy will support the evaluation of promising innovations, enable the spread and scale of proven and successful digital health tools, and reduce the fragmentation caused by local decisions and one-off purchases that has led to inequality and variation in health outcomes.

Policy Direction

This "Digital Health Investment and Value for Money Policy" (the policy) guides the province's HSPs to:

- Abide by the principles of the Broader Public Sector Procurement Directive (e.g. accountability, transparency, value for money, quality service delivery, and process standardization), and any future direction from the Ministry of Government and Consumer Services regarding Broader Public Sector procurement, where appropriate;
- Comply with the Interim Measures (effective March 18, 2019) of the Ontario Public Service Procurement Directive, where appropriate and as updated from time to time;
- Consider first those provincially funded digital health assets, services, and infrastructure services listed in the Digital Health Service Catalogue when assessing digital health solutions. If an OHT determines that their requirements cannot be sufficiently addressed by a particular resource included in the Catalogue, then that OHT is encouraged to work with the ministry to ensure their procurement of a market-available solution is appropriately guided by the standards established in the Digital Health Policy Guidance Document.
- Engage in value-based procurement, which considers stating the problem that needs to be solved rather than including technical language for solutions in procurement documents;
- Leverage regional and provincial services (e.g. shared services organizations, framework agreements, etc.) to ensure procurement expertise, best practices in sourcing, and value for money;
- Include provisions within competitive procurement documents and agreements that request a
 benefits evaluation to be completed by the ministry through the Centre for Digital Health
 Evaluation (or equivalent), and then assessed by the ministry Investment Management
 Framework;



- Consider incentive-based reimbursement models (e.g. models that pay for outcomes and share risk) for non-commodity digital health innovations; and
- Develop extensible agreements that state how future purchasers, including all OHTs, can participate in the procurement, which includes parameters around terms, pricing and at what point the term becomes "stale".

Rationale for this Policy Direction

This policy is intended to ensure that OHTs and HSPs achieve value for money from their procurement activities, and that vendors are reimbursed for the outcomes that their products and services deliver. This policy also leverages local, regional, and/or provincial purchasing power to create value in the health care system, promote successful innovations to spread and to move away from individual purchases that are based on cost and technical factors alone.

Implementation Expectations

This policy applies to all OHTs and HSPs that procure digital health solutions. This policy will ensure that procurements of new and/or updated digital health assets, services, and programs are aligned with collateral policy directions (e.g. the Digital Health Information Exchange Policy), and support the province's Digital First for Health strategic objectives.

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The Digital Health Policy Guidance Document

Digital Health Access, Privacy and Security Policy

Background

Ensuring the privacy and security of personal health information (PHI) is an obligation for HICs and HSPs under the PHIPA, and is key to maintaining Ontarians' confidence in digital health and a connected health system. While progress has been made, there is still significant friction as a result of health care providers' uncertainty in interpreting the PHIPA to manage the risk of sharing information, and the resulting inconsistencies in health information management practices across the system.

Establishing clear and consistent accountabilities, expectations, and requirements for the privacy and security practices of OHTs is needed to allow authorized individuals to securely, seamlessly, and easily access PHI from across the health system in a manner that respects and protects individual privacy and access rights.

The anticipated impacts of the policy are to reduce administrative barriers to access for digital health information; to improve coordination and communication amongst HSPs by facilitating the sharing of PHI; to standardize privacy and security practices within OHTs; to help improve the patient experience by ensuring seamless access to PHI, while reinforcing privacy and security protections through clear and consistent policies and controls; and to reduce legal costs for HSPs by providing clear guidance in support of the PHIPA compliance.

Note on scope: at such time as Part V.1 of the PHIPA may be proclaimed into force, a Prescribed Organization will have accountabilities with respect to the management of PHI that is received from HICs for the purpose of creating and maintaining electronic health records (EHRs). However, HICs will retain accountabilities for PHI that is managed outside of the Prescribed Organization's control.

Policy Direction

These proposals for "Privacy and Security Policy" content are intended to guide OHTs in developing and operationalizing information practices relating to the collection, use, and disclosure of PHI to deliver effective, patient-centred care across a continuum of health services in compliance with the PHIPA.

- HICs and their agents participating within an OHT are encouraged to harmonize their privacy
 and security policies, procedures, and practices with other OHT participants with respect to
 operations conducted within the governing framework of the OHT.
- HICs and their agents participating within an OHT are advised to take reasonable steps to ensure that patients understand any information practices that relate to the operation of the OHT, and how these may differ from the practices of the HIC when it is operating independently.
- Initially, OHTs and OHT participants will be asked to comply with any and all privacy and security
 policies associated with digital health assets that are utilized by the OHT and/or participants,
 which may include:
 - eHealth Ontario's EHR Privacy Policies and EHR All-in-One Security Policy with respect to access to provincial digital health assets maintained by eHealth Ontario; and



- Other policies with respect to digital health assets maintained by other digital health delivery partners.
- OHTs may wish to leverage OntarioMD Privacy and Security Training and its associated resources to support their understanding and compliance with privacy and security requirements.
- A provincial cybersecurity framework for health care organizations is currently under consideration and may eventually provide additional guidance for OHTs.
- OHT participants are recommended to establish and maintain policies, procedures, practices, and agreements that are necessary to enable them to comply individually and collectively with their legal and regulatory obligations (including those under the PHIPA) and with other relevant policies such that an individual served by an OHT may make a request for access, correction or a consent directive just once to any OHT participant, and receive a response that addresses any affected PHI, regardless of which participants are custodians of that PHI. Further, such an individual in respect to their PHI, may pose a question, make a complaint or report a suspected breach of privacy or security to any OHT participant, and they will receive one response, regardless of how many participants may need to contribute to that response.
- OHT participants are advised to collectively identify and mitigate privacy and security risks and areas of non-compliance in respect of OHT participants' connectivity with provincial digital health assets, through means such as:
 - A standardized program of education and awareness for all affected staff and agents;
 - Completion of privacy and security readiness self-assessments (as applicable);
 - Completion of privacy and security operational self-attestations;
 - Developing a unified cybersecurity blueprint and roadmap identifying the needed cybersecurity controls and services that need to be put in place amongst all participants;
 - Mitigating the gaps by OHT participants based on the target state cybersecurity blueprint;
 - Auditing and monitoring activities;
 - o Enforcement of privacy and security policies and procedures; and
 - Assurance of agents and electronic service providers.

OHTs may want to consider establishing a joint function for this purpose.

Rationale for this Policy Direction

This policy is critical to creating consistent OHT practices for managing the collection, use, and disclosure of PHI so that more HSPs and patients can have seamless access to PHI in a way that protects individual privacy.

The PHIPA establishes that individual HICs are each responsible for establishing their own
information practices. HICs have significant variance in their capacity to assess and manage
privacy and security risks.

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A patient-centred approach requires that patients should not be required to contact each HIC
participating in an OHT individually to ensure that their requests are honoured by all of their
care providers.

Implementation Considerations

Factors that should be considered for implementation, including expectations of delivery partners, will include the following:

- Alignment and harmonization of privacy and security policies, procedures, and practices across
 HICs of varying capacity is likely to be challenging.
 - It is likely that participants will naturally develop some degree of alignment/harmonization as a consequence of establishing the initial governance model(s) for OHTs.
 - Full/complete alignment will not be considered a prerequisite for OHTs, but early adopters will be expected to establish a harmonized privacy and security model within 6-12 months of launch.
- PHIPA allows two or more HICs to apply to the Minister of Health for an order permitting all or some of the applicants to act as a single HIC. Designating a group of OHT participants as a single HIC with respect to OHT operations may provide a convenient way for HICs to respond collectively to access requests, etc. but would likely still require agreements between among those HICs-participants to clarify operational roles and responsibilities.
 - Responding to privacy requests/inquiries in an integrated fashion is important for the
 patient experience but does not need to be a requirement on the first day. Early
 adopters will be expected to establish integrated processes for managing such inquiries
 within 12 months of launch.
 - Integration with respect to individual access requests may be a dependency for efficiently implementing digital patient access channels.
- Complying with eHealth Ontario's privacy and security requirements for access to provincial
 digital health assets is known to be challenging, particularly for smaller organizations. HSPs may
 lack the expertise to understand and implement privacy requirements. Privacy assessments are
 often complex, lengthy, and time consuming to complete.
 - eHealth Ontario and other digital health partners will offer greater than normal assistance to early adopters in order to streamline OHT compliance with privacy and security onboarding requirements.
 - Early adopter OHTs that include any participating organizations not currently approved for access to provincial digital health assets will be expected to plan to complete assessments and begin mitigating deficiencies as soon as possible after launch (within 3 months).
- eHealth Ontario's EHR policies apply only to those assets that are maintained by eHealth Ontario as part of the EHR under their prescribed role under s6.2 of O. Reg 329/04.



- o In time, the ministry would expect development of harmonized policies for a larger set of digital health services when delivery partners are consolidated within Ontario Health.
- Subject matter expertise in privacy and security, capacity, and resourcing for some of the OHT
 participants might be an issue at the beginning of transition and in their future operations, and
 this needs to be studied and considered to inform practices for harmonizing privacy and security
 models.
 - Based on the cybersecurity controls and services identified during the cybersecurity blueprint development activity for OHTs, some services might need to be outsourced to vendor of records such as Security Operation Center, privacy auditing tools, or external peer-review activities for compliance purposes. Such activities and their procurement considerations need to be planned in advance in order to have them in place on a timely manner avoiding possible breaches.

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Digital Health Reporting and Performance Policy

Background

The Ministry of Health is committed to ensuring investments in Ontario's health care system are transparent and accountable. OHTs are a key player in advancing the digital maturity of Ontario's health care system, and as such play an important role in tracking progress.

Policy Direction

This "Digital Health Reporting and Performance Policy" (the policy) guides all digital health delivery organizations to:

- Report annually on the sets of digital health solutions being developed, procured, and/or
 otherwise deployed within the OHT to improve Ontario's digital health maturity and
 interoperability (e.g. OHTs will be asked to report on digital health assets in which they are
 investing to ensure the province has a centralized understanding of Ontario's digital health
 landscape); and
- 2. Report on a limited set of performance and accountability measures on a quarterly basis to facilitate provincial tracking of digital health maturity.

Please note that specific indicators are under development.

All reporting will be done in alignment with an OHT performance measurement framework and broader ministry reporting.

Rationale for this Policy Direction

The province relies on local delivery partners to improve Ontario's digital health by adopting and using digital health solutions. While data about some digital health solutions is available from provincial delivery partners (e.g., Ontario Health), for solutions implemented based on local choice, local data is necessary to maintain a fulsome understanding of digital health maturity. By aligning digital health performance measurement and reporting across the province, the province can assure accountability and have the information necessary to make strategic adjustments to continue to enable and support the use of digital health assets to improve health care in Ontario.

Implementation Expectations

All OHTs will be asked to provide quarterly reporting on 8-10 indicators in alignment with the Digital First for Health Strategy. OHTs will be provided with clear definitions for the indicators and expectations for how to provide the reporting to ensure comparability and aggregability across OHTs to provide a clear understanding of digital health maturity at a provincial level. Additionally, annual reports will provide an opportunity for OHTs to articulate the progress made during the current year and identify their intended goals for the coming fiscal year.

Indicators for reporting are in development.



Clinical Systems Policy

Background

Across the province, efforts have been underway to both consolidate and update clinical systems in order to ensure providers are able to deliver optimal care to their patients. Although progress has been made, implementations are typically carried out at the provider or organization level within each sector. In order to ensure patients receive integrated, coordinated care, there is a need to develop principles to support OHTs in considering their clinical system strategy and future implementations.

A clinical system is an information system that allows providers to access patient data (PHI) for the purposes of providing care. Clinical systems also provide embedded clinical best practices and standards based on leading evidence. These systems are typically different for each sector (e.g. HISs in acute care settings, EMRs in primary care and community-based specialist practices, etc.); very few systems are implemented between sectors.

OHTs will be invited to work with the ministry on a plan for achieving better connected care for patients through the use of clinical information systems supporting the provision of high-quality patient care and robust information management practices.

Policy Direction

The "Clinical Systems Policy" (the policy) provides recommendations that OHTs may consider when planning, procuring, upgrading or implementing a clinical information system.

- Procurement The procurement of clinical systems is expected to be carried out in accordance with the directives included within the Broader Public Sector Procurement Directive, as appropriate, and in alignment with the Digital Health Investment and Value for Money Policy and the Digital Health Access, Privacy and Security Policy. Procured systems will be expected to incorporate the most current version of provincial standards (e.g. OntarioMD Certification) and will commit to upgrade to new versions as they are released. All HIS procurements and significant upgrades should be for a Provincial Reference Model (PRM) where one exists; if one does not exist, the OHT is advised to work with the ministry in considering a new PRM for the vendor's solution. Clinical systems should include requirements to score vendors based on their ability to address the requirements of applicable digital health policy directions (e.g. Digital Health Information Exchange Policy).
- Technology Clinical systems are envisioned to leverage a mature and reliable hosting model
 (e.g. movement to cloud-based, application service provider model) with any new systems that
 are to be locally hosted being accompanied by a business case submitted to the ministry
 supporting the approach. The OHT is advised to develop a plan to move towards a smaller
 number of instances in each sector within the OHT and submit it to the ministry.
- The OHT clinical systems are expected to be implemented and operated to meet the most recent provincial technical standards where available, including but not limited to the following areas:

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- Cybersecurity;
- Identity and Access Management;
- o Digital Health Privacy and Security Policy
- o System performance and availability; and
- o Backup, recovery and data management.
- In developing an OHT-specific digital health plan, it is recommended that the OHT consider how OHTs will connect clinical information systems to digital health assets in a way that aligns with the Digital Health Information Exchange Policy.
- Standardization OHTs will be requested to align their clinical information systems to existing
 provincial standards (messaging and content), and to contribute to provincial governance
 processes in developing clinical, technical, and business standards that can be embedded in
 clinical systems (e.g. future Ontario clinical standards governance body). Each OHT is advised to
 develop a clinical standards framework and create a process for incorporating the latest
 evidence into frontline systems.
- Data Any governance structure that an OHT has in place would benefit from having an active
 data oversight function that ensures appropriate availability, use and quality of data within their
 systems, includes an audit function if appropriate, and be aligned to any applicable provincial
 data governance body. This oversight function will ensure that consistent, standardized,
 structured data and terminology (for both clinical and non-clinical data, e.g. standard patient
 and provider identifiers) is used in clinical systems across the OHT, and that the OHT data
 standards are aligned with any applicable provincial standards.
- **Implementation** In the near-term, instances of new systems are encouraged to be shared between organizations with OHTs actively consuming and contributing to any existing or new provincial systems.

Rationale for this Policy Direction

This policy defines the requirements that OHTs are recommended to meet in order to ensure their clinical systems allow the following:

- Providers and organizations to access relevant health information as appropriate for providing care and improving quality of services for OHT patients.
- Patients to access their own PHI in order to become more empowered to participate in their care, as well as to enable virtual care encounters with their providers.
- Data to be extracted for the purposes of evaluating the performance of OHTs, as well as to generate insights for care planning and population health.

Implementation Expectations

In planning and implementing these policies, OHTs are advised to consider maturity of their clinical information systems across a number of dimensions. After identifying maturity in each of these areas,



OHTs may work with the ministry to assess the most applicable and relevant supports available in order to ensure they are able to align with the parameters of the policy.

There is a need to consult with key sector stakeholders such as patients, caregivers, hospitals, primary care providers, long-term care homes, and home and community care providers to better understand the current state, to validate the use of select solutions in achieving the desired end state, and to discuss implementation options and considerations. OHTs may also requested to participate in evaluations of the use of technologies and standards and make recommendations on the applicability of province-wide adoption.

In the future, the ministry may perform compliance audits to promote the consistent use of the technologies and standards described in this policy.

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Patient-Facing Digital Health Policy

Background

Historically, patients have had limited options for accessing care through digital tools, which has impeded their ability to access care how and where they want it. It has also been difficult for patients to get access to their health records, which is typically paper-based, and often bears a cost. This lack of digital access to care has been a significant pain point for many patients — whether it is avoiding travel and time off work by videoconferencing with providers for straightforward appointments, or patients with complex conditions who want to be more informed and proactive participants in their health care.

Patient-facing digital health refers to the use of digital tools that make it easier and more convenient for patients and their caregivers to interact with Ontario's health care system, anytime and anywhere they need it. Through a patient-facing digital health policy, a wide range of health care services will be made available through digital platforms that are more convenient for patients, just as consumers have come to expect in other industries such as banking and travel.

The objectives of patient-facing digital health are to:

- Enhance patient choice to access care how and where they want it (e.g., virtual visits enabled by video, audio call, electronic messaging).
- Empower patients with access to their own health information (e.g., information from POC systems, PHI in provincial repositories), and innovative self-management tools (e.g., digital self-care, remote monitoring).
- Simplify the administrative and navigation aspects of getting care through online appointment booking.

The ministry is committed to making digital health options available to patients so that Ontarians can make choices about how and where to engage with the health system and be active participants in their care.

Policy Direction

This policy for patient-facing digital health solution adoption encourages all OHTs to offer a minimum set of functionalities to their patients and also provides implementation guidance.

At minimum, OHTs are recommended to achieve functionality in the following areas:

- 1. **Virtual Visits**: Traditional clinical care interactions and follow-ups between patients and providers conducted through digital channels. Virtual visits do not include administrative interactions, such as appointment bookings or requests for health records. Modalities include:
 - a) Video visits
 - Includes both direct home video visits, and video visits where the patient is in a
 health care or community support agency setting (i.e., telemedicine patient host
 site), and may be supported (e.g., by a nurse) to connect via video to a clinician.
 - b) Audio call



- c) Electronic messaging for bi-directional communication between patients and providers (e.g., through email, portal, or text message).
- 2. **Patient empowerment and self-management**: Patients are able to access their own PHI and use digital self-care tools and programs to support self-management and remote monitoring of their condition(s). Modalities include patient access channels, mobile apps, remote monitoring platforms, and web portals.
 - a) Access to PHI will include at least three sectors and could include:
 - Unlocking PHI stored in tethered, clinical information systems (e.g., EMR and HIS, lab test
 providers) and in provincial data repositories (e.g., Ontario Laboratories Information
 System (OLIS), Digital Health Drug Repository (DHDR)) by following standards for
 interoperability and using patient-friendly terminology.
 - Supporting the connection of various innovative patient-facing modalities to PHI with the appropriate safeguards for privacy and security.
 - b) Digital self-care tools and programs could include, but are not limited to:
 - Chronic disease or mental health digital self-care programs linked to clinical support to enable patient self-management (e.g., OTN Telehomecare, Community Paramedics Remote Patient Monitoring (RPM), Ottawa Heart Institute's RPM program).
 - Light touch models to reinforce health messages and monitor for deterioration in health (e.g., Ottawa Heart Institute's Interactive Voice Response program).
 - Digital self-care tools that could support and enhance health care delivery (e.g., surgical transitions, home peritoneal dialysis).
- 3. **Online appointment booking**: Patients are able to manage administrative activities digitally for all providers and sectors through online appointment booking. The priority is to enable practice-level appointment booking, while considering appointment booking at the OHT-level as an area for future exploration.

To meet OHT year 1 expectations, at minimum, OHTs are expected to achieve functionality in the following areas :

Year 1 Expectation	Met through the corresponding functionality requirement
Expanded virtual care offerings from baseline, and 2-5% of Year 1 patients who received care from the Ontario Health Team had a virtual encounter in Year 1	a-c) Virtual visits through video, audio call, and electronic messaging
10-15% of Year 1 patients who received care from the Ontario Health Team digitally accessed their	2. a) Patient empowerment and self- management through access to PHI in at least
health information	three sectors.



Since OHTs will be expected to offer the full spectrum of functionalities at maturity, further progress made in meeting the remaining functionality requirements (e.g., practice-level online appointment booking, digital self-care, inclusion of additional sectors or provider groups) is encouraged.

Rationale for this Policy Direction

A policy for enhancing patient-facing digital health will ensure that all Ontarians have equitable access to choose digital health options for receiving care. This policy will help patients, their families, and caregivers to access and control how and when they receive care and access their own PHI, enabling them to become better partners in managing their own health. Patient-facing digital health tools can also support clinical decision-making and facilitate treatment, with the potential to reduce or offset the need for emergency visits or use of walk-in clinics.

Implementation Expectations

The ministry and delivery partners (e.g., OTN, OntarioMD, eHealth Ontario) will provide support and advice to early adopters. In general, OHTs are expected to proceed with implementation according to the following guidelines.

Implementation Guidelines			
Patient experience	OHTs will aim to minimize the number of portals for their patient population rather than proliferating several portals for sector or pathway specific needs. For example, many of the existing patient access channels that enable patients to access their own PHI also have additional functionalities for virtual visits (e.g., video, electronic messaging) and online appointment booking. Implementing solutions that have multiple functionalities may help to create a streamlined and integrated experience for patients and be a cost-effective approach.		
	As a result, OHTs will prioritize solutions that offer multiple functionalities over implementation of individual solutions for each functionality requirement option or modality.		
Integrated access	OHTs are advised to prioritize investments in solutions that:		
across multiple	 Enable virtual care across the OHT in a minimum of three sectors; 		
sectors	 Enable access to PHI across the OHT in a minimum of three sectors; 		
	 Could enable virtual care across various programs and/or patient populations (e.g. for digital self-care). 		
Identity, access, and	The ministry is developing an approach for provincial patient identity, access,		
authorization	and authorization (IAA) to provide patients with a secure and trusted way to		
	verify their identity online in order to access services offered by different		
	providers. When released, OHTs will be strongly encouraged to align with		
	applicable technical and operational requirements.		
Leverage existing	There are a number of examples that highlight the potential impact of virtual		
expertise and best	care in improving both patient health outcomes and patient and provider		
practice	experiences. The ministry will support OHTs in leveraging existing expertise		



	and best practices to minimize duplicative development and support quality expansion of virtual care.		
Operational Impact	Options for patient-facing digital health should complement clinical workflows and be a benefit to the administration of clinical practice by creating operational efficiencies that remove bottlenecks in manual processes.		
Access to Provincial Assets	HSPs will be expected to enable patient access to PHI by default or upon request, unless there are limitations from doing so as outlined in the PHIPA.		
	 In terms of a minimum dataset to be made available to patients, short-term priorities include laboratory and drug information, with an emphasis on information held in provincial data assets (i.e., OLIS, DHDR, respectively). Subsequent priority areas include the clinical data repository (CDR). Efforts to enable access to provincial data assets are expected to align with SPARK guidelines (e.g., meet ministry requirements for security and IAA management), including using the legal agreement structure the ministry has developed for enabling access to provincial data assets. 		
Data Management	HSPs are expected to commit to minimizing filtering and time lags for data release.		
College guidelines	Clinicians and HSPs are expected to follow all applicable college guidelines with respect to the delivery of virtual care (e.g., from the College of Physicians and Surgeons of Ontario).		
Complementary guidar	Complementary guidance offered through other digital health policies:		
Digital Health Investment and Value for Money Policy	Any procurements of patient-facing digital health solutions are expected to be aligned with the terms of the Digital Health Investment and Value for Money Policy.		
Digital Health Information Exchange Policy (DHIEX)	As a gateway that patients may use to digitally access both care services and PHI, patient-facing digital health solutions will be expected to employ application program interfaces (APIs) that adhere to widely-adopted technical standards, namely: • Messaging: HL7 FHIR • Web applications: Open, RESTful (SMART on FHIR)		
Digital Health Reporting and Performance Policy	OHTs will be asked to address reporting requirements that demonstrate performance in priority areas (e.g. consideration of the patient experience (e.g., by considering investments in solutions that offer bundles of functionality), the leveraging of existing expertise and best practice).		
Digital Health Access, Privacy and Security Policy	HSPs are HICs as defined in the PHIPA and are accountable for the PHI disclosed via personal access channels. In the event that multiple HSPs have formed an OHT, the OHT entity may apply to the minister for an order permitting it to act as a single HIC on behalf of OHT members.		

There is a need to consult with key sector stakeholders such as patients, caregivers, hospitals, primary care providers, long-term care homes, and home and community care providers to better understand



the current state, to validate the use of select solutions in achieving the desired end state, and to discuss implementation options and considerations. OHTs may also requested to participate in evaluations of the use of technologies and standards and make recommendations on the applicability of province-wide adoption.

Functionality specific guidance:

Video visits

- Provincial requirements for the ministry's telemedicine program continue to apply for remuneration for video visits via the OHIP claims system (e.g., patient and provider at an OTN site in Ontario).
- Various pilots will enable greater flexibility, including:
 - For <u>use of non-OTN technology</u>, OHT early adopters can apply to join the OTN Partnered
 Videoconferencing Proof-of-Concept project.
 - OHTs would trial and support refinement of a draft framework for use of non-OTN technology in Ontario.
 - Providers would be able to be remunerated for care delivered over non-OTN video visit technology that meet minimum standards and guidelines.
 - o For 'home' video visits remuneration the options are:
 - OTN's Home Video Visit pilot to deliver 'home' video visits via OTNinvite.
 - OTN Partnered Videoconferencing Proof of Concept project (as above).

Electronic messaging and audio call

- Remuneration for these types of virtual visits is only available through the Enhanced Access to Primary Care Pilot as part of the ministry's telemedicine program.
- Further requirements may be provided as the remuneration framework is developed.



eServices Policy

Background

At the end of a clinical interaction, clinicians undertake many transactional processes to obtain services for patient care, such as referring patients to other providers, prescribing drugs, ordering lab tests or imaging, and applying for supports such as assistive device coverage. Conventional processes for these activities are largely fax-and-paper-based, resulting in significant administrative burden and provider burnout, and patients falling through the cracks and/or facing long wait times due to untraceable processes. Some digital tools have emerged to address these problems, but programs for each individual transaction have been developed in silos, and there is significant fragmentation and many solutions that are not interoperable. EMR integration is also not consistently available for all eService solutions, or for all EMR users.

The ministry is currently working to develop an eServices program that would treat these clinically related activities as part of a holistic provider workflow, and build a technical architecture that facilitates interoperability between different solutions. **eConsult** and **eReferral** would be the first initiatives in scope of this program due to their track record of success in improving health system integration and smoother handoffs between care settings:

- Electronic consultations (eConsult) enables primary care providers (i.e., family physicians and nurse practitioners) to engage in a secure electronic dialogue with specialists (community-based or hospital-based) around patient care.
- Electronic patient referral systems (eReferral) digitizes the traditionally paper-based fax referral process, which results in shorter wait times, fewer inappropriate referrals, and higher quality referrals.

The eServices policy guides OHTs to consider eConsult and eReferral implementation together to support providers in delivering effective, holistic, collaborative, and cost-effective care. eConsults can avoid unnecessary referrals and eReferral systems can enhance the completeness of patient information to make specialist visits more effective – ultimately resulting in modernized and integrated patient care across the entire continuum. Progress made by OHTs in implementing eConsult and eReferral would be leveraged for further implementation of the eventual provincial eServices program.

Policy Direction

Under development

Implementation Expectations

Early implementation: In the near term, eServices adoption should align with current provincial programs and direction.

• eConsult: Participation in the Provincial eConsult Program, led by the eConsult Centre of Excellence, hosted on the OTNhub.



 eReferral: As the first approach, OHTs should validate if relevant programs currently available (e.g., the System Coordinated Access (SCA) Program) meet their needs. Where OHTs choose to deviate from these programs, ministry consultation is highly recommended.

The ministry's emerging provincial eServices program would provide additional guidance for further expansion of eConsult and eReferral, as well as additional initiatives for implementation.

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Contents

In	troduction	3
	How to Use the Digital Health Service Catalogue	3
Pı	rovincial Clinical Data Assets	4
	Acute Care Clinical Information	5
	Diagnostic Imaging and Radiology Reports	6
	Drug Information	7
	Immunization records	8
	Laboratory orders and results	9
P	ublic-Facing Services and Programs	. 10
	Digital Self-Care	. 10
	Immunization Connect Ontario (ICON)	. 13
	InScreen	. 13
	Interactive Symptom Assessment and Collection (ISAAC) Application	. 15
	My Cancer IQ	. 16
	Patient Access Channels	. 17
	Retinal Screening Program	. 18
	Virtual Visits	. 19
Pı	rovider-Facing Tools, Services and Programs	. 27
	Client Health and Related Information System (CHRIS) Suite of Applications	. 27
	Data Submission Portal	. 32
	eClaims	. 33
	Electronic Child Health Network (eCHN)	. 34
	Electronic Canadian Triage and Acuity Scale (eCTAS)	. 35
	Electronic Patient Referral (eReferral)	. 37
	Health Report Manager (HRM) and eNotification Service	. 38
	Integrated Assessment Record (IAR)	. 40
	KidneyWise	. 40



Ontario Renal Reporting System (ORRS)	41
OntarioMD i4C Dashboard	43
ONE Mail	43
Oncology Patient Information System (OPIS)	44
Positron Emission Tomography (PET) eTool	46
Provincial Clinical Viewers	46
Screening Activity Report (SAR)	48
Special Authorization Digital Information Exchange (SADIE)	49
Ontario eConsult Program (eConsult)	49
Administrative and Technical Tools, Services and Programs	51
Integrated Client Management System (ICMS)	51
iPort and iPort Access	52
ONE ID Credentialing Service	53
Wait Time Information System (WTIS)	54
Provincial Registries/Directories	56
OTN Health Service Directory (HSD)	56
Provincial Client Registry (PCR)	57
Provincial Provider Registry (PPR)	58
IT and Network Infrastructure Services	60
Consumer Gateway and/or Provider Gateway	60
Innovation Lab	60
SPARK	61
Digital Learning Resources and Reference Tools	62
Clinical Practice Guidelines, Standards and other Resources	62
Drug Formulary Resources	63
E-Learning	63



Introduction

Effective and integrated digital health delivery requires collaboration across the health care system. Ontario's digital health delivery organizations provide world-class tools and services that improve outcomes for patients and providers. From virtual care to health data collection and sharing, Ontario's digital health infrastructure provides solutions and assets that lead to increased clinical value and better health care system integration.

The Ministry of Health (the ministry) has developed Ontario's <u>Digital Health Service Catalogue</u> in collaboration with provincial digital health delivery organizations. It is designed to assist Ontario Health Teams (OHTs) with understanding the digital health landscape in the province. It lays out a number of digital health assets, services, and infrastructure services that are provincially available for use by all OHTs.

The digital health services and supports being provided to OHTs represent the contributions of multiple delivery organizations, including those who will soon become a part of Ontario Health (i.e. eHealth Ontario, Health Shared Services Ontario (HSSO), and Cancer Care Ontario (CCO)).

How to Use the Digital Health Service Catalogue

This catalogue provides a list of those provincially funded assets, services and infrastructure services that maintain a major regional or provincial presence that are available for use by OHTs to satisfy digital health needs and requirements.

This document covers a wide range of service and programs that have been built or procured for use by Ontario health system participants and should be used as a first resource for OHTs looking for digital solutions. If an OHT determines that their requirements cannot be sufficiently addressed by a particular resource included in the Catalogue, then that OHT is encouraged to work with the ministry to ensure their procurement of a market-available solution is appropriately guided by the standards established in the Digital Health Policy Guidance Document.

The Digital Health Policy Guidance Document is complementary to the Digital Health Service Catalogue and should be read in tandem with that document.

Ontario's digital health assets and tools are categorized as follows:

- 1. Provincial Clinical Data Assets
- 2. Patient-Facing Services and Programs
- 3. Provider-Facing Tools, Services and Programs
- 4. Administrative and Technical Tools, Services and Programs
- 5. Provincial Registries/Directories
- 6. IT and Network Infrastructure Services



7. Digital Learning Resources and Reference Tools

Provincial Clinical Data Assets

Ontario maintains a series of provincial data repositories containing important patient records and digital health information. These repositories include historic as well as current data gathered from care and diagnostic settings across the province.

These records help to support Ontario's transformation toward integrated care delivery and health sector efficiency, with:

- Timely access to personal health information (PHI) for decision making at point-of-care (POC);
- Smoother patient transitions between health care providers and geographies;
- Better coordination of care between multiple practitioners, and within health care teams;
- More efficient workflow and reduced dependency on paper-based systems;
- Lower cost, better-quality patient experience through reduced unnecessary or duplicate tests;
- Improved monitoring over time to support chronic disease management;
- Fewer gaps in patient information as patients move between hospital, practitioner's office, home care and long-term settings; and
- Continuous improvement in how we deliver care with data to support a population health approach and research activities.

OHTs are asked to ensure that their providers have access to the relevant information available in these repositories either through use of the provincial clinical viewers (in most cases) or through direct integration with their POC solutions (i.e. Electronic Medical Record (EMR) systems or Hospital Information Systems (HISs)).

OHTs are also expected to work with the province and agencies to ensure that all member organizations contribute relevant patient information to the provincial data repositories.

The data repositories currently in use provincially include the following patient information:

- Acute care clinical information
- Diagnostic imaging and radiology reports
- <u>Drug information</u>
- Immunization records
- <u>Laboratory orders and results</u>



The following parameters have been designed to ensure that OHTs have access to all appropriate patient health data that is currently available.

Implementation Considerations and Rationale

To support integrated care delivery, OHTs are advised to ensure that all relevant staff have access to one of the two provincial viewers, ClinicalConnect or ConnectingOntario and, to support improved workflow, should also ensure that they have access to the Health Reports Manager for notifications (see <u>Health Report Manager (HRM) and eNotification Service</u>).

To ensure that these records are available, all OHTs are encouraged to stipulate that their providers contribute to this data set by building/maintaining connections through the provincial Health Information Access Layers or the Consumer and Provider application programming interface (API) Gateway, as guided by the provincial Digital Health Information Exchange Policy. In addition, all OHT member organizations that produce relevant diagnostic imaging studies will be asked to contribute images to their regional diagnostic imaging repository (DI-r) (see Diagnostic Imaging and Radiology Reports).

To ensure that information can be contributed and accessed appropriately, adherence to the following technical standards is highly recommended:

- OHT records to include a unique patient identifier, so that it can be referenced through the Provincial Client Registry (formerly known as Enterprise Master Patient Index);
- All relevant OHT staff credentialled using ONE ID or a federated identity POC application should employ contextual sharing as a way of streamlining the user experience and enabling the seamless delivery of healthcare services.

Applicable OHT Policies

The following policies apply to use of this data:

- Digital Health Information Exchange Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy

Below is a detailed description of the different types of data available and their use.

Acute Care Clinical Information

Description

Authorized health care providers can access key acute care and community clinical information through the Acute and Community Clinical Data Repository (acCDR). This data includes hospital and community care organization discharge summaries, emergency reports, referral details,



care plans, consultations, clinical notes, and assessments. The acCDR currently contains 72% of the clinical data from acute, Local Health Integration Network (LHIN) home and community care, and primary care.

The data is available to view via ClinicalConnect and ConnectingOntario. Direct integration is not currently available.

Service Owner

eHealth Ontario

End User(s)

Service Providers

Sector(s) Served

- Acute Care
- Community Care
- Complex Continuing Care (chronic care)
- Home Care
- Long-Term Care
- Mental Health/Addictions
- Palliative Care
- Paramedic and Emergency Medical Services (EMS)
- Primary Care
- Specialist Care

Diagnostic Imaging and Radiology Reports

Description

This set of services gives Ontario health care providers access to a patient's diagnostic imaging studies and radiologist reports, irrespective of where the exams were taken. Access to this data provides valuable and timely information that helps to inform the kind of treatment a patient requires and minimizes the need to conduct duplicative tests, delay care, and have patients carry around CDs with their images between providers.

Patients' diagnostic imaging and radiology reports are collected by both independent health facilities and Hospital Picture Archiving and Communication System (PACS) systems and stored in three regional DI-rs.

For primary care physicians using an EMR, once a final report is received, the receiving regional repository sends the report through HRM to the ordering clinician and notifies them that the image is available for access.

Ontario 😚

The Digital Health Service Catalogue

In addition, direct access to the data contained in the regional repositories can be made available through integrations with hospital PACs/radiology information systems (RISs). PACS-quality images and reports from all three regional repositories are available through the two provincial viewers, ClinicalConnect, and ConnectingOntario. Specific use cases for these services are available as part of the onboarding and change management process for OHTs.

Currently the data set held by the DI-rs contains the following modalities:

- Computed Tomography Imaging (CT),
- Positron Emission Tomography (PET),
- Digital Radiology (X-rays),
- Ultrasound (Vascular, OB/GYN),
- Mammography,
- Fluoroscopy (Radio, In Vivo),
- Echocardiography,
- Nuclear Medicine and
- Bone Mineral Densities.

Additional Considerations

For hospital-based clinician (radiologist) access, OHTs should ensure that they have a DI-r based Foreign Exam Management (FEM) between OHT partners with their own RIS/PACS solutions.

Service Owner(s)

eHealth Ontario

End User(s)

• Service Providers

Sector(s) Served

- Acute Care
- Complex Continuing Care (Chronic Care)
- Emergency Care
- Primary Care
- Radiology (Hospital and Independent Health Facility-Based)
- Specialist Care (i.e. Cardiology, Oncology)

Drug Information

Description

Ontario's provincial health data assets include a large and growing proportion of the province's community pharmacy-dispensed prescription drugs and monitored drugs (i.e. narcotics)



through the Digital Health Drug Repository (DHDR). This currently this provides access to approximately 70% of the records of all of Ontario's dispensed medications, including publicly-funded dispensed medications, pharmacy services, and all monitored drugs.

Access to this information supports health care providers to avoid fatal drug interactions and/or overprescribing, to develop patient drug strategies, and to monitor drug usage.

Access to provincial drug information is available through the provincial viewers, ClinicalConnect and ConnectingOntario.

A listing of a patient's prescribed and dispensed drugs obtained during a hospital stay is included as part of the discharge summary information available within ClinicalConnect and ConnectingOntario. Primary care EMR direct access for discharge summaries (HRM) is available.

Service Owner eHealth Ontario

End User(s)

Service Providers

Sector(s) Served

- Acute Care
- Community Care
- Long-Term Care
- Home Care
- Paramedic and Emergency Management Services
- Pharmacy
- Primary Care
- Speciality Care

Applicable OHT Policies

- Digital Health Information Exchange Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy

Immunization records

Description

Ontario maintains provincially available information on immunizations, vaccine catalogue, and cases of outbreaks of infectious disease held within the Digital Health Immunization Repository (DHIR). The DHIR is a comprehensive, integrated public health information system that helps point of service providers and public health professionals in Ontario, provincially and locally, to

Ontario 😚

The Digital Health Service Catalogue

efficiently access and manage immunization, vaccine catalogue, and cases of outbreaks of infectious disease.

Service Owner

Ministry of Health

End User(s)

- Patients
- Service Providers (as of 2020)

Sector(s) Served

- Acute Care
- Education
- Home Care
- Primary Care
- Public Health

Additional Considerations

Access to these immunization records is not required for OHTs at this time.

Laboratory orders and results

Description

Ontario maintains provincial records for approximately 94% of Ontario's insured laboratory test results and orders from hospitals, community and public health labs through the Ontario Laboratories Information System (OLIS). This resource provides a way for hospitals, community, and public health labs to facilitate the secure electronic exchange of laboratory test orders and results with practitioners, which reduces the need for duplicative tests and improves patient care.

Provincial records of lab results can be accessed through any of the provincial clinical viewers (ClinicalConnect and ConnectingOntario), or through direct integration to a point of service solutions (EMR or HIS).

The Ontario Laboratory Information Systems currently captures the following data types:

- 1. Biochemistry
- 2. Haematology
- 3. Pathology
- 4. Blood Bank
- 5. Microbiology



Service Owner eHealth Ontario

End User(s)

- Patients
- Service Providers

Sector(s) Served

- Acute Care
- Long-Term Care
- Mental Health/Addictions
- Palliative Care
- Primary Care
- Public Health
- Specialist Care

Public-Facing Services and Programs

Digital Self-Care

Digital Self-Care is a term being used in Ontario to encompass digitally-enabled patient self-management support and symptom/vital sign monitoring.

Two provincial digital self-care programs are profiled in this catalogue. However, they do not represent the entirety of digital self-care supports that are available to OHTs.

For more detailed information and advice on digital self-care tools and services in Ontario, OHTs can access the Ontario Telemedicine Network's (OTN's) Virtual Care Advisory Service, which supports the use of evidence-informed and best practice virtual care processes, including the integration of virtual visits and digital self-care tools into new models of care. The resources and expertise available through this service will not be limited to OTN technology offerings or programs but will also include advice on other models and technologies that may be of interest to Ontario health care providers.

1. Provincial Telehomecare Program

Description

The Telehomecare Program, designed by a clinical advisory group in Ontario, is an intensive sixmonth coaching and monitoring program which supports patients with chronic obstructive pulmonary disease (COPD) or congestive heart failure (CHF) through education, health coaching, and remote monitoring – complementing the care provided by the patient's primary care provider. While the Telehomecare program relies on the use of supplied monitoring



equipment in a patient's home, including a blood pressure unit, weight scale, and an oximeter to measure oxygen saturation, evidence shows that remote patient monitoring alone is not effective; therefore, motivational interviewing and coaching skills are a key component in this program. Telehomecare registered clinicians or registered respiratory therapists remotely monitor each patient's health status, work with the patient to set personalised healthy living goals, and coach them on a weekly basis as well as through just-in-time opportunities through monitoring alerts. This combined approach helps the patients learn self-management skills for their chronic disease, allowing them to stay healthier at home.

Telehomecare has served almost 20,000 patients to date and is currently live in a number of regions (Toronto Central, Central West, North East, Central, North Simcoe Muskoka, South West, Central East), with an annual enrollment of over 3,500 patients per year.

Telehomecare has been shown to significantly decrease health system utilization, including emergency department (ED) visits, hospital admissions and physician visits, and to improve patients' clinical outcomes and self-management. Telehomecare reviews and evaluations have shown that these interventions lead to marked improvement in patients' quality of life and were highly acceptable to patients. Also observed were improvements in the prescribing of medications, patient knowledge and self-care and functional class. The ministry has engaged the Toronto Health Evaluation and Technology Assessment (THETA) Collaborative from the University of Toronto in the evaluation of the program.

The program currently operates with:

- OTN providing project management oversight, centralized technology, business/clinical process leadership, quality improvement, and change management and adoption support.
- The local/regional planning organization (e.g. an OHT) supporting local business model development, establishing patient/provider referral processes, establishing enrolment targets, providing local leadership (i.e. leading project/clinical steering committee), and conducting communications/awareness activities.
- The host organization(s) (most often a hospital or home and community care) selected (e.g. by an OHT) to be responsible for the actual delivery of the Telehomecare service, including employing the nurses and executing of all operational aspects.

There are various other digital self-care models for COPD and CHF in the province. More can be learned about the other models through Virtual Care Advisory Service.

Service Owner

Ontario Telemedicine Network



End User(s)

- Patients
- Service Providers

Sector(s) Served

- Acute Care
- Home and Community Care
- Primary Care
- Public Health

Implementation Considerations and Rationale

The Provincial Telehomecare Program is an evidence-informed program with demonstrated benefit that, where regionally available, OHT physicians could refer their patients to or that OHTs could consider implementing for their catchment.

Applicable OHT Policies

- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy
- Patient-Facing Digital Health Policy

2. Digital Mental Health – Online Peer Support Tool

Description

An online platform that provides a round-the-clock online peer support community where members can share experiences and express themselves in words and images, helping participants feel less socially isolated. There is also a library of articles, tips and support courses including cognitive behaviour therapy accessible online. Members can access the safe community anonymously via computer, tablet or smartphone. Trained counsellors are available 24/7 to offer support and keep the community safe (peak hours of activity are between 1:00 a.m. and 3:00 a.m.).

The online peer support tool is made available to all Ontarians coping with mood disorders via OTN through the Provincial Structured Psychotherapy Program. The Provincial Psychotherapy Program is funded by the ministry and aims to assess the effectiveness of various structured psychotherapy modalities. Since October 2018, over 16,000 patients across Ontario have enrolled in the program.

Patients can self-enroll anonymously, and the program can be promoted in coordination with local mental health and addictions strategies and/or service delivery.

Service Owner

Ontario Telemedicine Network



End User(s)

Patients

Sector(s) Served

Mental Health/Addictions

Implementation Considerations and Rationale

The online peer support tool is available provincially for OHT providers to raise awareness with their patients, who can self-enroll.

Applicable OHT Policies

- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy
- Patient-Facing Digital Health Policy

Immunization Connect Ontario (ICON)

Description

The Immunization Connect Ontario (ICON) is a web-based tool for the public to securely look up their immunization records and report immunizations to and from the DHIR (also known as the 'Digital Yellow Card').

Service Owner

eHealth Ontario

End User(s)

• Public

Sector(s) Served

- Education
- Primary Care
- Public Health

Implementation Considerations and Rationale

OHTs may choose to recommend ICON to caregivers or patients as a means of tracking a dependant's or their own immunization status.

Applicable OHT Policies

• Patient-Facing Digital Health Policy

InScreen

Description

InScreen combines existing breast, cervical, and colorectal cancer screening data into a single



integrated digital platform that supports patients, providers, and health system planners in improving the quality and uptake of screening. InScreen includes digital screening records for all insured residents of Ontario 18-75 years of age. It also enables Cancer Screening Correspondence, a key component of an organized screening program, which is used to increase client participation in screening. In a recent year, InScreen generated 6 to 7 million pieces of correspondence sent to screening-eligible Ontarians.

InScreen's citizen/patient record is updated daily and the physician information is updated weekly. In addition to patient information, InScreen contains information on all physicians and, through the physician/patient rostering process, also includes the patient's primary care physician and the primary care physician's patient list. The information collected by InScreen also informs the Screening Activity Report also identified in the digital catalogue.

Service Owner

Cancer Care Ontario

End User(s)

- Ontario Citizens
- Service Providers

Sector(s) Served

• Public Health

Implementation Considerations and Rationale

InScreen is informed by laboratory information, ministry information, hospital information, and the cancer registry to segment and target screen-eligible Ontarians for correspondence. OHTs will not be required to provide information as it is collected through existing screening data.

Screening letters are sent to people to invite them to get screened, tell them about their test results, let them know if they need to get more tests done and remind them when it is time to be screened again. There is an opportunity for InScreen to support screening services for other chronic diseases.

Applicable OHT Policies

The following policies apply to use of this data:

- Digital Health Information Exchange Policy
- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy



Interactive Symptom Assessment and Collection (ISAAC) Application

Description

The Interactive Symptom Assessment and Collection (ISAAC) tool allows patients and their care team to assess and monitor symptoms through a web-based platform. It is an accessible, touch-screen platform that currently supports symptom management for oncology as well as functional assessment for orthopedic patients. ISAAC enables the collection of patient-reported outcomes (PROs) from patients and facilitates the identification of concerning symptoms or issues. There is evidence that the use of PROs on platforms such as ISAAC improves patient-clinician communication, detects unrecognized problems and improves the patient experience.

ISAAC has the capability to notify the caregiver team via email when symptom scores exceed defined thresholds, ensuring the appropriate symptom management can be performed more effectively and efficiently. ISAAC also has the functionality to intelligently trigger PROs based on patient responses. If a patient indicates feelings of depression, ISAAC will offer additional questions to characterize the patient's depressive symptoms.

Ontario's cancer symptom screening program is the only population-based cancer symptom screening program in North America. Most patients are screening for symptoms using a PRO called the 'Edmonton Symptom Assessment Survey' (ESAS). ISAAC has been implemented at 14 regional cancer centres and at over 50 hospitals. More than 45,000 patients complete symptom screening using ISAAC every month. Other oncology PROs available via ISAAC include Patient Reported Functional Status (PRFS), Expanded Prostate Cancer Index Composite (EPIC), Personal Health Questionnaire (PHQ-9) for depression and the MD Anderson Symptom Inventory – Head and Neck Cancer module (MDASI-H&N).

In 2018, ISAAC was expanded to support the collection of PROs in orthopedics, in particular for patients who are undergoing hip or knee replacement surgery. These patients complete either the Oxford Hip Scale or Oxford Knee Scale and the EQ-5D (a quality of life PRO used worldwide). The hip and/or knee PROs assess the functional status, pain and quality of life for these patients. These PROs will be quality indicators for the hip/knee surgery Quality Based Procedure (QBP) funding model. Currently, ISAAC is live in 20 orthopedic clinics and the intention is to implement ISAAC at all 57 orthopedic clinics in Ontario.

To enable interoperability, ISAAC has three integration services available to sites: HIS to ISAAC, ISAAC to HIS, and integration with the hospital patient portal. ISAAC is supported on major mobile platforms and integration with hospitals systems allows patient and disease data to inform ISAAC, ultimately providing the patients with a better patient experience.

Service Owner

Cancer Care Ontario



End User(s)

- Patients
- Service Providers

Sector(s) Served

• Specialist Care (Oncology, Orthopedics)

Implementation Considerations and Rationale

Cancer patients are offered the opportunity to report their symptoms so that their care team can monitor their symptoms and provide support as required.

Patients undergoing hip and/or knee replacement surgery are offered the opportunity to report their functional status, pain and quality of life, and a care team monitors these reports and tailors the rehabilitation plan accordingly. Furthermore, orthopedic PROs will be used a quality indicator for this type of surgery; comparative data will be reported by the Canadian Institutes for Health Information (CIHI) provincially and nationally.

ISAAC improves patient assessment, facilitates improved patient-clinician communication and ultimately improves the patient experience.

Applicable OHT Policies

The following policies apply to use of this application:

- Digital Health Information Exchange Policy
- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy
- Patient-Facing Digital Health Policy

My Cancer IQ

Description

My Cancer IQ is an award-winning website that helps people understand their risk for cancer and what they can do to lower that risk. It ultimately aims to reduce the risk of developing cancer by providing evidence-based information and resources to support Ontarians in managing their health, as well as opportunities to discuss the outcome of the assessment with their primary care physician.

My CancerIQ provides cancer risk assessments and resources, including a personalized action plan to Ontarians, for six cancers: lung, breast, colorectal, cervical, kidney and melanoma. To date, nearly 500,000 cancer risk assessments have been completed.



Service Owner

Cancer Care Ontario

End User(s)

Public

Sector(s) Served

- Primary Care
- Public Health

Implementation Considerations and Rationale

My CancerIQ is a public facing website that supports all major mobile platforms. After completing a series of questions, the tool provides a personalized cancer risk assessment that can be shared between a patient and their primary care physician.

Applicable OHT Policies

The following policies apply to use of this data:

- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy

Patient Access Channels

Description

Patient access channels are patient-facing digital products or services that collect and/or disclose PHI to patients and may also connect patients directly to their providers. Currently, there are at least 50 distinct patient access channels in Ontario used by more than 2 million Ontarians to access parts of their health records that reside with their HSPs.

Patient access channels can be standalone services or offered as part of a POC solution (i.e. an EMR or HIS). An example of a standalone product which is available in Ontario is MyChart™.

MvChart™

MyChart™ is a patient portal developed by Sunnybrook Health Sciences Centre that streamlines the way health record information is accessed and shared. Patients are key stakeholders in the delivery of care and MyChart™ empowers them to manage their health through access and contribution to their PHI and the ability to securely communicate with other users (e.g. family, friends, health care providers). Electronic access to PHI can be granted by patients to family caregivers, hospital clinicians, primary care physicians, home and community care staff, pharmacists, and others.

Service Owner

Sunnybrook Hospital



End User(s)

Patients

Sector(s) Served

- Acute Care
- Home and Community Care (coming soon)

Implementation Considerations and Rationale

OHTs are expected to provide patients with digital choices to interact with their care team and this includes digital access to patient health records. MyChart™ is one example of a patient access channel that OHTs can deploy to improve digital access to patient health records. The unique needs of the patient population served by the OHTs should inform the choice and implementation of a digital tool.

Applicable OHT Policies

- Digital Health Information Exchange Policy
- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy
- Patient-Facing Digital Health Policy

Retinal Screening Program

Description

This program provides retinal screening sites for diabetes patients that leverage the eConsult program for access to ophthalmology consults. The core focus of this program is reaching those patients with diabetes who have not had an eye exam within the past year and do not have an eye care provider. The program strives to provide timely access to care if diabetic retinopathy is detected from the screening exam and arrange ongoing care (e.g., ophthalmology, optometry). Through program-specific funding, a trained technician takes images of referred patients with a specialized camera. Once the images have been captured, they are uploaded into a web-based software for an ophthalmologist to review and grade accordingly (see eConsult section). Treatment and follow-up recommendations are sent to the host site to share with the patient and their primary care provider. This innovative care model will continue to serve people with diabetes to improve access to screening, support early identification of retinopathy and treatment and improve the efficiency of specialists in a cost-effective manner.

Retinal screening programs are currently available in 7 regions with 11 screening organizations: Central West, Central, Toronto Central, Hamilton Niagara Haldimand Brant, South East, North East and North West. Many of the retinal screening programs have partnered with health care organizations and providers in their community to offer on-site outreach screening clinics as a

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The Digital Health Service Catalogue

strategy to increase access to care locally for hard to reach patients who are unscreened for retinopathy.

Each retinal screening program has access to monthly quality dashboards to view performance and outcome metrics per host site as well as provincially. For fiscal year 2018-19, 2,155 patients were screened by the 11 host sites. Retinopathy was detected in 13% of these screens. Provincially, the average time from photo upload to interpretation and from interpretation to report completion by ophthalmologist was 3.90 and 3.45 days respectively. Additional diagnoses are also captured in a patient's report to ensure that patients are connected to the care required if other eye pathologies are detected in the screening exam.

Service Owner

Ontario Telemedicine Network

End User(s)

Service Providers

Sector(s) Served

- Primary Care
- Public Health
- Specialist Care

Implementation Considerations and Rationale

Available model for consideration by OHTs who have an unreached population of patients with diabetes in need of retinal screening.

Applicable OHT Policies

- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy
- Patient-Facing Digital Health Policy
- eServices Policy

Virtual Visits

Virtual visits are clinical visits conducted by video, electronic message, and/or audio call.

In Ontario, the provincial program for virtual visits is the ministry's Telemedicine Program, which allows providers to have video visits with patients at a patient host site through OTN's provincial network and bill their services through the Ontario Health Insurance Plan (OHIP) claims process.

In addition to this provincial offering, the ministry, with OTN's support, is working on expanding access to virtual visits and modernizing the ministry's Telemedicine Program. Thus, in addition



to this core program there are various pilot projects that are available to OHTs, which can allow wider billable uses of virtual visits. These pilots enable delivery of:

- Video visits to the home (i.e. eVisits to the Home Pilot; Partner Video Proof-of-Concept Project);
- Primary care virtual visits by video, electronic messaging and/or audio call (i.e. eVisit: Timely Access to Primary Care Pilot); and/or
- Video visits via non-OTN technology (i.e. Partner Video Proof-of-Concept Project).

The provincial virtual visit program and pilot initiatives are described below in more detail.

Please also note that, for more detailed information and advice on virtual care tools in Ontario, OHTs can access OTN's **Virtual Care Advisory Service**, which supports the use of evidence-informed and best practice virtual care processes, including the integration of virtual visits and digital self-care tools into new models of care. The resources and expertise available through this service will not be limited to OTN technology offerings or programs but also include advice on other models and technologies that may be of interest to Ontario health care providers.

1. Provincial Virtual Visit Program

Description

Ontario has one of the largest telemedicine (video visit) networks in the world, allowing patients and providers across Ontario to participate in secure clinical video visits at a telemedicine studio or directly through computer, video and smartphone. This program enables:

- Patient care closer to or even at the home;
- Timely care with reduced travel and wait times;
- Continuity of care for patients; and
- Private and secure video patient-provider connections.

Through the Provincial Virtual Visit Program:

- Providers will have access to secure real-time video visits through OTN with patients or peers and choose the method that is best for them (e.g. via room-based, PC, Mac or mobile solutions);
- Patient host sites are enabled to allow patients local access to secure and supported sites within their communities to receive video visits from their provider(s);
- Physicians will be remunerated for the virtual care provided by the ministry's
 Telemedicine Program via the OHIP claims process; and
- Video visit support services enable providers to find patient host sites and other providers delivering video visits, schedule video visits and access educational learning



resources.

In order to access this program, providers need an OTN membership. Membership is free to those HSPs who receive 50% or more of their funding from the ministry or OHIP.

Provider Video Visit (eVisit)

Providers have access to secure real-time video visits with patients or peers through the method that is best for them (e.g. via room-based, PC, Mac or mobile solutions):

- <u>OTNhub</u>: Through the OTNhub website providers can access OTN's eVisit solution online from their desktop devices.
- OTNconnect: OTNconnect is OTN's mobile app, which is available to health care providers in Ontario who have signed up for OTNhub.ca and is available on both iOS and Android platforms.
- Room-based video conferencing: OTN provides a Vendor of Record (VOR) list of
 qualified room-based video conferencing equipment that is available in easy-to-deploy
 configurations and available for procurement by HSP sites. The VOR includes
 telemedicine systems and accessories used in physical video-conferencing suites that
 are able to connect with other OTN video access points (e.g. OTNhub, OTNconnect)
 including video equipment, carts, medical peripherals, etc.

Providers can also send an OTNinvite (i.e. email invitation) through the OTNhub or OTNconnect to a non-OTN member to participate in a secure video event from their own device. See 'Physician Remuneration' section below for billing restrictions within the Provincial Virtual Visit Program when using OTNinvite.

OTN also offers an urgent/emergent telemedicine application (TraumaTenant) which enables video conferencing for specialized emergency care and timely treatment for patients in need. This application is used by many provincial and regional models such as the Ontario Telestroke Program, which provides emergency physicians with 24/7 access to neurologists with expertise in stroke care who can support both the assessment and treatment of patients experiencing acute stroke.

Patient Host Sites

Ontario has a provincial network of over 1,500 patient host sites that offer convenient facilities local to patients that enable equitable access to video visits and provide a supported environment that can often enable a more complex assessment (e.g. one that requires nursing support and/or medical peripherals at the patient site).

The technology used at patient host sites to enable video visits through OTN include:



- Room-based videoconferencing systems, sometimes with medical peripherals (e.g. telesteth, ENT scope, high grade exam camera), which transmit images and/or sound to the consulting physician. These are available through OTN's VOR;
- Computer/tablet with camera and microphone using an OTNhub/OTNconnect license;
 and
- Computer/tablet with camera and microphone that can receive an OTNinvite.

In addition to providing space and technology to host a patient, patient host sites can either schedule or receive scheduled patient-to-specialist appointments through OTN's scheduling service. Patient host sites act as patient-facing endpoints for any member specialist or clinical professional delivering care in the province. They are responsible for meeting the consultant's clinical requirements, including any pre- or post-assessments and in-appointment procedures.

Physician Remuneration

Ontario physicians can register to provide and submit claims for video visits. In order to simplify the billing and payment process, the ministry's Telemedicine Program leverages the existing OHIP billing system for claims submission. However, the claims are not processed as OHIP claims and should not be confused with insured services. To be eligible to submit claims, physicians must submit a physician registration form and register with the ministry for billing privileges.

Both the physician and the patient must be in attendance at an OTN-certified site in Ontario during the health care encounter in order for the service to be eligible for remuneration. That means that:

- Providers are using:
 - o A room-based videoconferencing system in Ontario that is part of OTN; or
 - An OTNhub/OTNconnect license and they are physically located in Ontario.
- Patients are at a patient host site in a health care or community support setting in Ontario that is using:
 - A room-based videoconferencing system that is part of OTN;
 - An OTNhub/OTNconnect license; or
 - A system that receives an OTNinvite (e.g. GuestLink site) 1.

Even though telemedicine-enabled patient health care services are not insured services, the telemedicine program's physician service rates are set at the same rate payable for insured

¹ Patient visits via OTNinvite to non-professional setting (e.g. home, business, etc.) are not eligible. See pilots for access to wider billable uses of virtual visits.

Ontario The Digital Health Service Catalogue

services (i.e., the rate in the OHIP Schedule of Benefits). The telemedicine program utilizes the OHIP Schedule of Benefits fee codes plus a program code.

Video Visit Supports

Video visit support services enable providers to find patient host sites and other providers delivering video visits, to schedule video visits, and to access educational learning resources.

- Finding patient host sites and other providers through OTN's Health Services
 Directory:
 - Identify specialists and clinical programs that accept referrals for video visits. To
 facilitate the referral process, the Directory lists key information, such as
 programs, sub-specialties, clinical interests, and specific clinical protocols such as
 referral information.
 - Identify patient host site near their patients' location of residence and determine those that provide nursing support, use of peripheral technology, etc. if required for the video visit. This information is used to support the video visit scheduling process.
- Schedule video visits through OTN's scheduling system, which allows for province-wide scheduling of patient host sites and equips providers with the tools they need to schedule patient appointments, while safeguarding patient privacy. OTN has implemented specific guidelines for direct online scheduling and coordination between health care providers and patient host sites across Ontario to promote flexibility and control over providers' scheduling activity and improve the patient experience.
- Access education learning resources through the OTNhub, which provides access to
 thousands of educational learning resources in one place. These services can be used to
 help providers prepare for various types of video-based patient encounters, including
 technology support and clinical best practices.

Service Owner

Ontario Telemedicine Network

End User(s)

- Care Coordinators
- Patients
- Service Providers and their Administrative Staff

Sector(s) Served

- Acute Care
- Community Support Services
- Corrections



- Home and Community Care
- Long-Term Care
- Mental Health/Addictions
- Primary Care
- Public Health
- Specialist Care

Implementation Considerations and Rationale

The Provincial Virtual Visit Program is recommended for use by OHTs interested in enabling patient digital access to care through video visits. Participation in the program is required in order for physicians to access video visit remuneration through the ministry's Telemedicine Program (via the OHIP claims system), and for video visits that require use of patient host sites.

Applicable OHT Policies

- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy
- Patient-Facing Digital Health Policy

2. eVisits to the Home Pilot

Description

Through OTN's eVisits to the Home Pilot, providers can leverage OTNinvite to provide 'home' video visits that are launched through a secure email link and be remunerated for the virtual care delivered. This is a pilot allowance for 'home' video visit remuneration from the ministry's Telemedicine Program.

OTNinvite functionality is available to all OTNhub users but to bill for the 'home' video visits delivered, the providers must be enrolled in this pilot.

This pilot has limited enrollment and is available predominantly to:

- Specialists; and
- Primary care providers associated with an OHT, who are delivering care to their own patients (i.e. within an existing physician-patient relationship).

Early insights on the benefits of this initiative show significant time and travel savings for patients and high patient and provider satisfaction, with most patients feeling that the quality of care was the same or somewhat better than an in-person appointment.

Service Owner

Ontario Telemedicine Network

End User(s)

Patients



Service Providers

Sector(s) Served

- Acute Care
- Home and Community Care
- Long-Term Care
- Primary Care
- Specialist Care

Implementation Considerations and Rationale

The eVisits to the Home Pilot is available for enrollment by OHT-associated physicians interested in enabling patients with digital access to care through 'home' video visits.

Applicable OHT Policies

- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy
- Patient-Facing Digital Health Policy
- 3. eVisits: Timely Access to Primary Care Pilot

Description

The eVisits: Timely Access to Primary Care Pilot enables patients to have virtual visits with their primary care practitioner from their computer or smartphone via electronic messaging, audio call or video visit using an online platform.

This pilot (September 2017 – March 2019) was conducted in 5 regions (Central West, Central East, Mississauga Halton, Toronto Central, Waterloo Wellington) with 280 physicians and over 32,000 patients invited who completed over 17,000 virtual visits during the pilot. Physicians are remunerated for virtual visits according to a pilot billing framework.

The formal evaluation of this pilot is being conducted by the Women's College Hospital Institute for Health System Solutions and Virtual Care (WIHV). Preliminary findings demonstrated that patients highly value virtual visits, but do not overuse them, with most visits being conducted over electronic messaging. The final evaluation will be available in Q1 2019/20.

The online platforms are available for purchase through a VOR arrangement from OTN.

Pending review of final evaluation results, enrollment in this model will be considered for primary care providers who: are part of an OHT early adopters; have procured technology off the OTN VOR; and are providing care to their own patients (i.e. within an existing physician-patient relationship). This would allow primary care physicians in OHTs to deliver and receive remuneration for virtual visits according to a pilot billing framework.



Service Owner

Ontario Telemedicine Network

End User(s)

- Patients
- Service Providers

Sector(s) Served

Primary Care

Implementation Considerations and Rationale

Pending evaluation results, the eVisits: Timely Access to Primary Care Pilot may be available for enrollment by primary care physicians who are part of an OHT, and are interested in enabling patients with digital access to care through 'home' virtual visits.

Applicable OHT Policies

- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy
- Patient-Facing Digital Health Policy

4. Partner Video Proof-of-Concept Project

Description

This is a limited enrollment proof-of-concept project through which health care organizations and providers can trial and help inform the recommended provincial approach that could enable broader use of non-OTN technology in Ontario, while not inadvertently fragmenting or decreasing access to virtual care. This includes elements such as, requirements for technology, interoperability, accountability agreements, data/reporting, etc. and enabling supports needed (e.g. procurement, privacy and security).

Through this proof-of-concept:

- Providers can be remunerated for care delivered via non-OTN video visit technology that meet minimum standards and guidelines;
- Participants will participate in focused demonstration projects to support development of various elements (e.g. requirements for patient host site connections); and
- Participants will provide feedback and support refinement of the recommendations for a provincial approach that could support modernization of the ministry's Telemedicine Program.

Service Owner

Ontario Telemedicine Network



End User(s)

- Patients
- Service Providers

Sector(s) Served

- Acute Care
- Home and Community Care
- Long-Term Care
- Mental Health/Addictions
- Primary Care
- Specialist Care

Implementation Considerations and Rationale

OHTs and associated clinicians interested in enabling patients with digital access to care through 'home' video visits through non-OTN technologies will be given priority in joining the OTN Partner Video Proof-of-Concept Project.

Applicable OHT Policies

- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy
- Patient-Facing Digital Health Policy

Provider-Facing Tools, Services and Programs

<u>Client Health and Related Information System (CHRIS) Suite of Applications</u> Description

The Client Health and Related Information System (CHRIS) is the provincial digital health asset that supports the delivery of home and community care services. CHRIS is a web-based platform that acts as the home and community care core patient management system, delivering a common set of functions related to care coordination, care planning and administration of home and community care. CHRIS supports the provincial client record for clients receiving home and community care services, as well as key functions including client assessments and referrals, billing and reconciliation and required reporting on service delivery.

CHRIS supports communications and placement with other parts of the health system including long-term care placement, eNotification with hospitals and eReferral to community support service providers. Authorized external health system organizations are able to access client information stored in CHRIS through Health Partner Gateway (HPG) – the CHRIS partner portal.



OHTs are strongly encouraged to leverage key functions of CHRIS to support the delivery of home and community care services, as well as coordinate other health services including long-term care placements and referral to community support services. Some functions may only be required during the transition of home and community care to OHTs. OHTs may choose to adopt different technologies and processes to support these functions at maturity.

The CHRIS suite of applications includes (1) Home and Community Care Management, (2) Placement Management, and (3) the Coordinated Care Plan (CCP).

1. CHRIS/HPG - Home and Community Care Management

The CHRIS solution suite for Home and Community Care Management supports organizations in the care of patients, the handling of referrals, and in the delivery of services in home and community settings. It is strongly recommended that OHTs leverage the following components, as appropriate:

- **Health Partner Gateway (HPG)** Provides access to patient information available in CHRIS and collaboration workflows. This solution supports ONE ID federated login.
- **Inbound eReferral** Supports the receipt of standardized referrals from hospitals and EMS, streamlining intake and status update processes. Please note, work to enable eReferrals from primary care and regional referral hubs is in progress.
- Assessments Tools Enables standardized assessments for patients being referred for and receiving home and community care services. The information captured from the assessments help identify issues, risks and changes in health conditions and assists in the development of specific care planning. The assessment platform is integrated with CHRIS and assessment information is shared with relevant users via the HPG and provincial repositories. The following standard interRAI assessment tools are currently available:
 - interRAI Contact Assessment (interRAI-CA)
 - interRAI Home Care (interRAI-HC Community & interRAI-HC Hospital includes hospital version)
 - interRAI Palliative Care (interRAI-PC)
 - o interRAI Community Health Assessment, including four supporting supplements:
 - Functional Supplement (interRAI CHA-FS)
 - Assisted Living Supplement (interRAI CHA-AL)
 - Mental Health Supplement (interRAI CHA-MH)
 - Deafblind Supplement (interRAI CHA-Db)
 - Child and Youth Mental Health and Adolescent Supplement (interRAI ChYMH) (available in 2020)
 - interRAI Preliminary Screener



- Home Care Service Planning, Referrals, Contract Management, and Billing Supports
 the planning and delivery of home care services by home care agencies. Supports
 reporting of service utilization for home and community care to the ministry. Service
 availability and waitlists are managed based on geography and market share. Supports
 service pathways for common treatment care plans (e.g., bundled care: hip and knee).
 Bi-directional information sharing with home care agencies is automated through the
 HPG solution and is available through PXML web services interfaces. During transition,
- Ontario Drug Benefit (ODB) Authorization Enables ministry and pharmacy notification of ODB authorizations, extensions and terminations.
- Equipment and Supplies (E&S) Ordering Supports the purchase of supplies and rental of equipment required in the delivery of home care services. Web service APIs support home care agencies submitting requisition requests and E&S vendors for purchase orders and billing data exchange.
- **Community Care Referral Management** Supports the creation and management of community care referrals and waitlists. Community care agencies access and respond to referrals, manage waitlists, and exchange documents and assessments through the HPG.
- **eNotification to Home Care and Community Care** Provides near real-time notification when patients present to an ED, are admitted or discharged from an acute care facility, or are seen by EMS.
- Integration with Provincial Data Repositories CHRIS provides a near real-time summary of a patient's home and community care record to the Clinical Data Repository (CDR). CHRIS supports the ClinicalConnect solution through real-time access to information through a web services interface.
- **Health Card Validation** CHRIS is integrated with the ministry Health Card Validation System to electronically validate Ontario health card numbers and versions.
- Provincial Client Registry (PCR) Integration PCR integration enables CHRIS
 demographic data to be linked with or accessed by, other health information systems. A
 bi-directional system-to-system integration between CHRIS and PCR enables users to
 auto-populate information from PCR into the CHRIS client record. OHTs will be expected
 to contribute home and community care information to the PCR and will have the
 option to consume information via the PCR.
- Centralized Information Management and Decision Support Reporting A provincial
 data warehouse that supports provincial reporting (e.g. MIS) and the development of
 provincial tools, dashboards and algorithms to support performance measurement and
 monitoring as well as quality improvement initiatives.

2. CHRIS/HPG – Placement Management



The CHRIS solution suite supports placement management including the management of long-term care home waitlists, transitioning patients into long-term care settings, and bookings for short stay beds. Applications to long-term care facilities are exchanged through the HPG solution. Long-term care home staff are enabled to manage referrals, view waitlists, and access shared documents, assessments, and other patient information. Placement management includes use of:

 Bed Board Management (BBM) – BBM records vacant long-term care home and hospital beds, their locations and characteristics. Allows linking to CHRIS waitlists to match resources to appropriate patients. Supports long-term care beds and short stay bed bookings. During transition, OHTs will be expected to utilize this functionality.

3. CHRIS/HPG - CCP

A web-based solution that provides an implementation of the Health Quality Ontario (HQO) Health Links CCP. To support all Health Link participants, this solution supports collaborative multi-authoring capabilities for creating, viewing, and being notified of changes to coordinated care plans. This solution supports ONE ID federated login. This functionality is strongly recommended for use by OHTs.

Asset Owner

Health Shared Services Ontario

End User(s)

- Care Coordinators
- Delivery Organizations
- Provincial Reporting and Analytics
- Service Providers

Sector(s) Served

- Home and Community Care
- Laboratory Orders and Results
- Long-Term Care

Implementation Considerations and Rationale

At full maturity, OHTs are expected to have clear workflows and possess the necessary capacity to support the management of home and community care services that may be supported by a combination of technologies including CHRIS. In the interim to full maturity, it is expected that CHRIS will be used by OHTs to support the transition and delivery of home and community care services.

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The Digital Health Service Catalogue

Key functions of CHRIS will be important in supporting OHTs in their management of home and community care services, client placement to long-term care homes, and collaborative care planning using the CCP.

The use of CHRIS by OHTs will provide a shared provincial home and community patient record available across OHTs and support information sharing, placement management and patient movement. Benefits of CHRIS include:

- Supports a single provincial client record and repository for home and community care that can be leveraged by all appropriate health system organizations.
- Existing information exchange processes and system integrations are currently in place
 with every provincial home care provider and many health system organizations
 including hospitals, long-term care homes and community support service agencies.
 Continuity of solution use removes the need to reinvest in new integrations and
 associated change management.
- Provides consistent, integrated, centralized ministry reporting capabilities for home and community care.
- Inbound eReferral capabilities from hospitals and EMS that reduce manual data entry and enable automated status updates to referral source.
- eNotification services that provide real-time alerts to health teams on patient status and location, preventing missed home care visits.
- Provides consistency across OHTs for placement referrals and bed booking for long-term care homes. It provides provincial long-term care waitlists, in compliance with current legislation for long-term care.

Patient information is consistently shared with provincial repositories and viewers:

 Bi-directional integration between CHRIS and the PCR supports access to home and community care client information in provincial repositories, which can be viewed through the provincial clinical viewers (e.g. ConnectingOntario). CHRIS is also integrated with ClinicalConnect, Sunnybrook MyChart, SHIIP and the REACH portal. These integrations reduce the volume of data entry and data transfers between systems thereby reducing the risk of privacy incidents and improving the patient experience.

Applicable OHT Policies

- Digital Health Information Exchange Policy
- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy



- Clinical Systems Policy
- Patient-Facing Digital Health Policy
- eServices Policy

Data Submission Portal

Description

The Data Submission Portal (DSP) is a web-based .NET application used for the submission and validation of data for a number of cancer and screening programs, including:

- Activity Level Reporting (ALR) used to support funding, quality and capacity management for cancer services provided by an OHT;
- Specialized Services Oversight (SSO) used to support funding, quality and capacity management for highly specialized procedures provided by an OHT;
- Gastrointestinal Endoscopy (GI Endo) used to support provincial colorectal screening, funding, quality and capacity management for gastrointestinal endoscopy procedures provided by an OHT;
- Fecal Immunochemical Test (FIT) used to support provincial colorectal screening, funding, quality and capacity management of colorectal screening tests provided by the labs supporting delivery of screening to OHT patients;
- Positron Emission Tomography (PET) used to support the collection of PET insured data for funding, quality and capacity management of PET procedures provided by an OHT;
- Registered Nurse Flexible Sigmoidoscopy (RNFS) used to support the collection of RNFS data for funding, quality and capacity management of RNFS procedures provided by an OHT; and
- eClaims data used to support patient enrollment and the adjudication of cancer drugs used for treatment provided by an OHT.

Data is used to support both operational and analytic needs across the cancer continuum. The DSP is designed to be scalable and can easily support the addition of new tenant programs, including those beyond the cancer and screening programs if required.

Service Owner

Cancer Care Ontario

End User(s)

- Clinics, Labs, Administrators, Management providing OHT services
- Hospital Administrators, Management

Sector(s) Served

Specialist Care



Implementation Considerations and Rationale

The DSP is recommended for OHT use as it is the conduit for digital health delivery organizations, hospitals, and other health care providers to submit the data noted above. The DSP collects standardized structured data from sites via CSV extracts from local systems. Sites submitting data using DSP are provided real-time feedback on data quality with an opportunity to correct data for resubmission.

All organizations using the DSP are required to sign the following agreements: Acceptance of End User Licence, Local Registration Agent (LRA), data sharing agreement (DSA) for specific tenants.

Applicable OHT Policies

The following policies apply to use of this data:

- Digital Health Information Exchange Policy
- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy

<u>eClaims</u>

Description

eClaims is a web-based application deployed in over 90 hospitals across the province and allows for adjudication and reimbursement of approximately \$400 million of cancer drugs annually. eClaims is used primarily by pharmacists, pharmacy technicians, physicians (e.g., oncologists, hematologists), hospital finance staff, and other hospital administrators as well as Cancer Care Ontario program and finance staff.

eClaims is a real-time system that facilitates the adjudication of patient enrolments and treatment claims for injectable cancer drug treatments funded through CCO's New Drug Funding Program and Evidence Building Program to ensure use is in alignment with eligibility criteria.

eClaims provides a central location for all relevant information on a patient (e.g., enrolments, treatments, supporting clinical documentation and patient specific communication). It also enables providers within the circle of care across sites to view enrolment details and treatment history (e.g., including uploaded supporting documentation) on their patients.

Contact

Cancer Care Ontario

End user(s)

- Administration (Finance Staff)
- Providers (Hospital Oncology Pharmacist, Pharmacists, Pharmacy Technicians,



Oncologists, Hematologists)

Sector(s) Served

Specialist Care

Implementation Considerations and Rationale

eClaims improves and expedites management of adjudication and reimbursement activities related to the appropriate use of injectable cancer drugs. eClaims applies a digital rules-based solution to automatically adjudicate reimbursement claims for cancer drugs against clinically validated standards for treating cancer patients. eClaims also ensures that all drugs covered under the New Drug Funding Program and Evidence-Based Program are efficiently adjudicated for hospital sites administering patient treatment.

HL7 APIs for local integration of Computerized Prescriber Order Entry (CPOE) systems or data submission using the Data Submission Portal (DSP) are available.

All organizations supporting eClaims are required to sign the following agreements: Software License and Services (eClaims Data Submission Portal), eClaims License and Participation, LRA.

Applicable Policies

The following policies apply to use of this data:

- Digital Health Information Exchange Policy
- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy

Electronic Child Health Network (eCHN)

Description

eCHN is the paediatric digital health record of Ontario. It is a secure portal for clinicians to access paediatric medical information for patients under their care. Patient data is collected from over 70 hospital sites across Ontario and is reflected in a consolidated digital record.

Thousands of clinicians rely on eCHN for the timely coordination of paediatric patient care and for paediatric referrals, regardless of location.

Note: Some information contained within eCHN is also available through the provincial viewer services ConnectingOntario and ClinicalConnect.

Service Owner

The Hospital for Sick Children (SickKids)

End User(s)

Service Providers



Sector(s) Served

Acute Paediatric Care

Implementation Considerations and Rationale

Connection to eCHN is recommended for those OHTs providing acute paediatric care.

Applicable OHT Policies

- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy

Electronic Canadian Triage and Acuity Scale (eCTAS)

Description

The Canadian Triage and Acuity Scale (CTAS) improves patient safety by ensuring consistent application of triage guidelines in Ontario EDs.

The CTAS are guidelines used by ED nurses to triage patients according to the urgency of their needs. The triage process assesses how urgently a patient needs to be seen by a physician and helps define the order in which patients should be seen when multiple patients are waiting.

Through the years, significant variations were identified in how clinicians interpret and apply the CTAS guidelines. The 2010 Ontario Auditor General's report identified a lack of consistency in assigning the CTAS levels and a lack of clear accountability in ensuring standardization of the CTAS guideline application. The award-winning electronic CTAS (eCTAS) improves both clinical decision-making and data accuracy for one in six patients.

The eCTAS is also a key enabler towards an evolution to live ED reporting. The cloud-based provincial system receives patient volumes, presenting complaints, triage scores, vitals and clinical documentation immediately after the triage event.

By standardizing the application of the CTAS guidelines across the province, the eCTAS program provides:

- Improved patient safety and quality of care
- Enhanced accountability through more timely collection, analysis and reporting of clinical triage data
- Support for more informed policy and funding decision-making

Asset Owner

Cancer Care Ontario

End user(s)

• ED Registration Clerks



- Hospital Management and Administration
- Service Providers (e.g. ED Nurses)

Sector(s) Served

• Emergency Care

Implementation Considerations and Rationale

To be eligible for in the ministry's Pay for Results Program, an ED must implement the eCTAS system.

Participation in the eCTAS program includes the integration of clinical decision support into a facility's clinical and technical workflows. The Access to Care team (CCO) assists hospitals in selecting their optimal technical integration option and helps provide change management services for effective integration (e.g., project management, implementation, integration and education support). Hospitals are responsible for local information system development and implementation resource costs.

An OHT with emergency care services (e.g., urgent care centre, ED, etc.) interested in eCTAS implementation should contact CCO's Access to Care team to inquire about eligibility, availability and requirements for implementation. These requirements and level of change management effort can vary significantly based on the hospital's selected clinical and technical integration.

Standard requirements for all integration options include:

- Identification of clinical, technical and product leads to support implementation and ongoing operations of the eCTAS system
- Agreements (data sharing agreements, acceptance of end user license agreement)
- Reliable internet access
- Support from local clinical and technical resources for:
 - Initial and ongoing release testing and validation
 - Assistance in local and provincial incident investigation

Applicable OHT Policies

The following policies apply to use of this application:

- Digital Health Information Exchange Policy
- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy
- Clinical Systems Policy



Electronic Patient Referral (eReferral)

Description

An eReferral is an electronic communication that enables the referral process through the transfer of information among providers to support the patient across the continuum of care. eReferral helps to address the challenge of fragmentation across a high number of disconnected systems that make it difficult to share patient information. Traditional referrals are also often lost, incomplete, and provide little to no transparency for the referrer or patient.

There are currently a number of different programs with multiple eReferral solutions in the province, including some that are Ontario-based innovators. Some regions in Ontario have invested in eReferral based on health service provider choice, which reflects local needs and priorities. eReferral solutions have been implemented across a range of primary care and acute pathways, such as:

- Patient services provided in a hospital setting (e.g., cardiology, surgeries, orthopedics);
- Referral of patients to less intensive out-of-hospital care settings, such as home and community care and long-term care;
- Specialized services, such as diagnostic imaging, foot care, and specialized geriatric care;
 and
- Other services, such as paramedicine, Health Links, and independent living services.

One such leading example of regional implementation supporting coordinated access to health care services, is the System Coordinated Access (SCA) program. Currently implemented in the Waterloo Wellington, Champlain, Erie St. Clair, North East and South East regions, the program leverages innovative technology to bring pre-existing referral processes into a connected environment where information can easily flow and be distributed across the system.

Early successes include decreases in wait times and unnecessary services, increases in processing and sending speeds of referrals, as well as high levels of patient and provider satisfaction.

There are numerous other examples of programs and initiatives across the province where regions have procured vendors with systems that improve linkages and communications between patients, referrers, specialists, and service providers.

While regions across the province have been implementing various systems and processes within their respective geographies, the province is working towards an integrated system.

eReferral, when part of a provincial digital approach, can facilitate better transitions of patients between care settings, improve referral times and reduce inappropriate referrals. OHTs are encouraged to determine relevant programs currently available to meet their needs and to



consider eReferral and eConsult solutions together to support providers in delivering effective, holistic, collaborative and cost-effective care.

End User(s)

Service Providers

Sector(s) Served

- Home and Community Care
- Primary Care
- Specialist Care

Implementation Considerations and Rationale

OHTs are encouraged to engage vendors that can interoperate with other digital health systems (e.g. all EMRs, HISs, case management systems) and have integration partners (or have future planned integrations) to reduce fragmentation and achieve coordinated care across the care continuum.

For OHTs considering new procurements or significant upgrades, please refer to the policy directions in the Digital Health Policy Guidance document to help guide implementation activities.

Applicable OHT Policies

- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy
- Clinical Systems Policy
- eServices Policy

Health Report Manager (HRM) and eNotification Service

Description

Health Report Manager (HRM) is a digital health solution that enables primary care clinicians using an OntarioMD-certified EMR to securely receive important patient reports electronically from other participating health care settings (primarily hospitals, HSSO and independent health facilities).

HRM electronically delivers medical record reports (e.g. discharge summaries) and transcribed diagnostic imaging reports from sending facilities directly into patients' charts, within a clinician's EMR.

Currently, over 211 hospital sites and more than 100 independent health facilities/speciality clinics send reports via HRM, and 10,000 clinicians are receiving reports from across the province.

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The Digital Health Service Catalogue

Reports sent through HRM also include eNotifications, which are real-time electronic notifications of an event (e.g. admit, discharge or transfer) or message sent through HRM to the EMR of the patient's primary care physician to inform them that their patient has been discharged from the hospital's ED or admitted to or discharged from an inpatient unit. They are seamlessly integrated into the EMR and the physician's workflow.

eNotifications are augmented with community information provided through HSSO's CHRIS as well as with Health Links information (where available) prior to being sent to EMRs. This integration of community information with patient information in EMRs is improving the coordination, efficiency and effectiveness of care to patients with complex needs.

By transmitting hospital reports directly to physicians' EMRs, silos are being broken down, and smooth transitions are supported across the care continuum. Further, HRM functionality and adoption have become a centrally-available and cost-effective mechanism for the secure transmission of data.

eNotifications contribute to faster follow-up care after a patient has been hospitalized. After receiving an eNotification, physicians will know to expect a discharge summary and/or other reports from the hospital after the hospital has prepared the report(s) for electronic transmission.

Service Owner

OntarioMD

End User(s)

- Care Coordinators
- Service Providers

Sector(s) Served

- Home and Community Care
- Primary Care

Implementation Considerations and Rationale

To support improved workflow, hospitals within an OHT should be 'live' as sending facilities for HRM and eNotification, and primary care providers in an OHT enabled to receive medical reports and eNotifications through HRM.

Applicable OHT Policies

- Digital Health Access, Privacy and Security Policy
- Clinical Systems Policy



Integrated Assessment Record (IAR)

Description

The Integrated Assessment Record (IAR) provides a centralized integrated repository for clinical assessment data collected from multiple community care sectors, including home and community care, community mental health (CMH), community addictions (CA), long-term care homes (LTCH) and inpatient mental health (MH). It allows authorized HSPs within the circle of care to upload and view a client's assessment information in a secure and timely manner.

Currently, the IAR is a stand-alone service, however work is underway to make it accessible through the provincial clinical viewers (ClinicalConnect and ConnectingOntario)

Service Owner

Ministry of Health

End User(s)

• Service Providers

Sector(s) Served

- Community Care
- Home Care
- Inpatient Mental Health
- Long-Term Care
- Mental Health/Addictions

Implementation Considerations and Rationale

The IAR data is available to OHTs.

Applicable OHT Policies

- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy

KidneyWise

Description

KidneyWise is an online clinical toolkit that provides guidance to primary care providers in identifying patients that may be at higher risk of developing chronic kidney disease (CKD). It also provides recommendations on how to properly diagnose and manage the care of an identified patient to reduce the risk for further disease progression.

The KidneyWise toolkit has three main components, including:

- A clinical algorithm that can be used at the POC;
- An evidence summary for primary care providers requesting more information; and

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The Digital Health Service Catalogue

• An outpatient nephrology referral form that outlines appropriate clinical tests results that should be included in the referral.

The KidneyWise toolkit was updated in 2018 based on new evidence from clinical practice guidelines and feedback from clinical providers.

Service Owner

Cancer Care Ontario

End User(s)

Service Providers

Sector(s) Served

- Primary Care
- Specialist Care (Nephrology)

Implementation Considerations and Rationale

KidneyWise is made available as a responsive website, viewable on various device dimensions and orientations. With KidneyWise, primary care providers have immediate access to a standardized approach for the identification, detection and management of CKD, as well as a structured referral form. These are available provincially for OHT providers who are involved in the care of patients who may be at a higher risk of developing chronic kidney disease.

In order to use this web-based toolkit, OHTs will require a modern browser (desktop or other mobile device) and need to provide a per-user name and email address (to support user communications according to medical device legislation).

Applicable OHT Policies

The following policies apply to use of this data:

- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy
- Patient-Facing Digital Health Policy

Ontario Renal Reporting System (ORRS)

Description

The Ontario Renal Reporting System (ORRS) is a provincial renal data and operational information system for health care providers allowing for:

- Patient-based funding;
- Performance reporting;
- Quality management; and
- Capacity planning.



The ORRS includes a robust provincial clinical dataset of chronic dialysis, advanced chronic kidney disease, and acute dialysis patients. This data informs the funding of renal services and is used by regional renal programs for patient management, funding forecasts and real-time reporting.

Service Owner

Cancer Care Ontario

End User(s)

- Hospital Administration
- Service Provider (Renal Care)

Sector(s) Served

- Home and Community Care
- Specialist Care (Nephrology)

Implementation Considerations and Rationale

The ORRS is the primary funding data source of renal services for renal care providers. It also allows for the monitoring, measurement and reporting of CKD and QBPs for the purpose of improving outcomes for renal patients. For those OHTs involved in the provision of renal care services, the use of the ORRS is highly recommended.

OHTs interested in using the ORRS will need to identify data leads to implement 'train-the-trainer' models for ongoing data reporting, data quality and data compliance operations. Clinical and back-office systems and resources will also be required for the reporting and extraction of required data, and for the implementation of quality improvement plans associated to performance measures.

All organizations using the ORRS are required to sign the following agreements: ONE ID, Registration Authority (RA), LRA, ORRS LRA (designation for user registration and service enrollment), DSA and Acceptance of End User License.

Applicable OHT Policies

The following policies apply to use of this data:

- Digital Health Information Exchange Policy
- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy



OntarioMD i4C Dashboard

Description

The i4C Dashboard (formerly known as the EMR Quality Dashboard) is an EMR-integrated tool that provides clinicians with a real-time view of how their practice population is performing across an array of primary care indicators, and enables providers in taking immediate action based on that data. This tool also makes it easier for clinicians to proactively monitor and screen their patient population, and supports them in improving the quality and consistency of EMR data.

Service Owner

OntarioMD

End User(s)

• Service Providers

Sector(s) Served

Primary Care

Implementation Considerations and Rationale

At this time, use of the iC4 Dashboard is not required for OHTs. The Dashboard is currently only available through two EMR vendors (TELUS Health and OSCAR EMR). OntarioMD is in discussions with the ministry around an approach to support the provincial rollout of the iC4 Dashboard tool across other platforms.

Applicable OHT Policies

- Digital Health Access, Privacy and Security Policy
- Clinical Systems Policy

ONE Mail

Description

ONE Mail allows users to securely and confidentially exchange PHI with other registered health care providers using ONE Mail. ONE Mail has two offerings:

- ONE Mail Partnered is a secure, encrypted email service for large organizations. This
 service uses an organization's existing email structure and routes their email through
 the eHealth Ontario infrastructure to allow users to securely and confidentially
 exchange PHI or personal information (PI) with other ONE Mail users.
- ONE Mail Direct is a secure email service designed specifically for small organizations and for (individual) regulated health care professionals in Ontario. This encrypted service, hosted within the highly secure eHealth Ontario infrastructure, allows users to securely and confidentially exchange PHI or PI with other ONE Mail users.



Service Owner

eHealth Ontario

End User(s)

- Care Coordinators
- Service Providers

Sector(s) Served

- Acute Care
- Home and Community Care
- Long-Term Care
- Pharmacy
- Primary Care
- Public Health

Implementation Considerations and Rationale

All OHTs will be expected to support the secure sharing of structured and unstructured information between providers. ONE Mail can be used to satisfy the secure messaging requirement for exchanging ad-hoc patient information and dialogue between OHT providers registered with a ONE Mail account. Any organization wishing to choose ONE Mail will require all participating providers to possess ONE ID credentials.

Applicable OHT Policies

Digital Health Access, Privacy and Security Policy

Oncology Patient Information System (OPIS)

Description

Systemic therapy drug ordering is one of the most complex processes in patient care. The Oncology Patient Information System (OPIS) is a CPOE system that is used in 15 hospitals and 19 satellite facilities across Ontario for ordering and administering systemic treatments. Formerly a paper-based process for systemic therapy drug ordering, OPIS automates this process and improves patient safety by:

- Allowing immediate electronic communication among cancer care providers to ensure reliable, safe and efficient care;
- Replacing handwritten prescriptions to reduce prescription errors and adverse drug events; and
- Flagging drug allergies to prevent adverse drug events.

The OPIS is integrated with CCO's automated drug adjudication system (eClaims) for patient

Ontario 😚

The Digital Health Service Catalogue

enrollment and treatment data as well as CCO's Drug Formulary, which provides view-only information on regimen and drug monographs. It is aligned with CCO's ALR data requirements.

The OPIS is directly involved with patient care and is integrated with the patient registration system at each hospital. Approximately 20,000 treatments are entered in the OPIS per month across the province.

Key features of the OPIS include: regimen build, ordering module (for both hospital-administered and take-home cancer drugs), pharmacy verification, medication administration, clinical alerts and physician billing. Custom chemotherapy order reports and drug labels have been developed to meet the needs of each site.

Service Owner

Cancer Care Ontario

End User(s)

Service Providers (Hospital Oncology Pharmacists)

Sector(s) Served

- Clinical Trials Resources at Hospitals
- Hospital Medical Records Resources
- Specialist Care (Medical and Radiation Oncology)

Implementation Considerations and Rationale

OHTs are advised to ensure that hospital sites using the OPIS as their CPOE system maintain patient safety standards and clinical best practices. As hospital sites transition to new CPOE systems, OHTs are expected to ensure that patient treatment and safety standards are maintained.

The OPIS is installed and managed by local technical staff supported by CCO. Hospitals are required to stay within two releases of the most current version of OPIS available.

Applicable OHT Policies

The following policies apply to use of this data:

- Digital Health Information Exchange Policy
- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy
- Clinical Systems Policy



Positron Emission Tomography (PET) eTool

Description

The PET eTool provides support for those referring physicians (typically specialists) who order PET scans. It contains information regarding clinical eligibility and facilitates access to – and the sharing of – PET scan referral and activity data between physicians, PET centres and CCO. PET imaging can be used to evaluate normal and abnormal biological function of cells and organs with primary use in oncology as well as some cardiovascular and neurology indications.

PET data is used to determine eligibility for funding (PET scans are reimbursed when they meet evidence-based clinical recommendations of appropriate use). The information also supports:

- Patient-based funding;
- Performance reporting;
- Quality management including service impact evaluation; and
- Capacity planning.

Service Owner

Cancer Care Ontario

End User(s)

• Service Providers

Sector(s) Served

Specialist Care

Implementation Considerations and Rationale

OHTs may require access to the PET eTool as part of patient referrals for PET scans and/or the administration of PET programs. The PET data available through the PET eTool streamlines access to PET scanning and facilitates the exchange of information between OHTs and other providers (e.g., PET centres).

Applicable OHT Policies

The following policies apply to use of this data:

- Digital Health Information Exchange Policy
- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy

Provincial Clinical Viewers

Description

The provincial clinical viewers give users real-time access to digital health records contained in Ontario's provincial data repositories, including clinical documentations, assessments,

Ontario 😙

The Digital Health Service Catalogue

discharge summaries, consultations reports, dispensed medications, laboratory results, hospital visits, home and community care services, mental health care information and diagnostic imaging reports and images. There are two main viewers:

- ConnectingOntario ClinicalViewer Provides regional access to a wide range of patient information for authorized providers in the Greater Toronto Area and Northern and Eastern Ontario. ConnectingOntario includes access to the following provincial repositories:
 - o acCDR
 - o Diagnostic Imaging Common Service (DI-CS) and DI-rs
 - o DHDR
 - o OLIS
- ClinicalConnect Provides regional access to a wide range of patient information for authorized providers in South West Ontario. ClinicalConnect includes access to the following provincial repositories:
 - o acCDR
 - DI-CS and DI-rs
 - o DHDR
 - o OLIS

Service Owner

eHealth Ontario

End User(s)

- Care Coordinators
- Service Providers

Sector(s) Served

- Acute Care
- Home and Community Care
- Long-Term Care
- Pharmacy
- Primary Care
- Public Health

Implementation Considerations and Rationale

Access to one of the two viewers is required for OHTs, unless they have access to the relevant provincial assets by other means.



Applicable OHT Policies

- Digital Health Information Exchange Policy
- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy

Screening Activity Report (SAR)

Description

The Screening Activity Report (SAR) provides Patient Enrolment Model (PEM) primary care physicians (including their delegates and health care providers servicing First Nations, Inuit, Metis and urban Indigenous communities), with a supplementary tool for improving their cancer screening rates and appropriate follow-up for breast, cervical and colorectal cancer screening.

The report presents physician performance and patient level screening activity for colorectal, breast and cervical cancer screening. It allows physicians to compare their screening performance against other physicians within their OHT, as well as across the province. It is integrated with eHealth's ONE ID for identity and access management.

Service Owner

Cancer Care Ontario

End User(s)

Service Providers

Sector(s) Served

Primary Care

Implementation Considerations and Rationale

The SAR information can be obtained through an online portal that provides PEM physicians with a practice level patient and performance report for cervical, breast and colorectal cancer screening. Physicians must register for ONE ID to access the SAR service.

Applicable OHT Policies

The following policies apply to use of this data:

- Digital Health Information Exchange Policy
- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy



Special Authorization Digital Information Exchange (SADIE)

Description

SADIE is a secure web application for clinicians that provides a step by step process for submitting applications to the Exceptional Access Program (EAP), facilitating patient access to drugs not funded on the Ontario Drug Benefit (ODB) Formulary.

Service Owner

Ministry of Health

End User(s)

Service Providers

Sector(s) Served

- Primary Care
- Specialist Care

Implementation Considerations and Rationale

SADIE is available for use by OHTs.

Applicable OHT Policies

N/A

Ontario eConsult Program (eConsult)

Description

The Ontario eConsult Program is a secure web-based tool that allows physicians or nurse practitioners timely access to specialist advice for all patients, often eliminating the need for an in-person specialist visit.

The program is led by the Ontario eConsult Centre of Excellence (eConsult COE), housed at The Ottawa Hospital in partnership with the Bruyère Research Institute. The program includes 4 services: the Champlain BASETM Regional Service (available to providers in the Champlain and Mississauga Halton region), the Ontario eConsult Service (accessed through the secure OTNhub and available to all Ontario nurse practitioners and physicians), Teledermatology and Teleophthamology.

In addition to the provincial partners described above, a number of regional partner sites coordinate and administer the program for their local populations. Existing partner sites include Champlain BASE™ in partnership with Winchester District Memorial Hospital, the South East Academic Medical Organization, the Mississauga Halton regional team, Hamilton Health Sciences (HITS team) for the Hamilton Niagara Haldimand Brant region, Woman's College Hospital (Toronto Central) and the eHealth Centre of Excellence for the Waterloo Wellington



region. Delivery partners include OTN, OntarioMD, and eHealth Ontario, with the support of the Ministry of Health.

Most regions have established local lead organizations to facilitate the development of regional communities of practice, whereby primary care providers can access the specialists they are most familiar with while also having access to provincial specialist groups to ensure equitable access.

The four eConsult services available through the Ontario eConsult Program are described below in more detail.

Champlain BASETM Regional Service

Built upon the BASE™ managed specialty model, the Champlain BASE™ Regional Service provides regional eConsult services to the Champlain and Mississauga Halton regions.

Ontario eConsult Service

The Ontario eConsult Service provides provincial and regional multi-specialty eConsult services province-wide on the OTNhub platform. The Service leverages the BASE™ managed specialty model and the OTN Direct to Specialist Model.

To enable a more streamlined workflow for physicians, EMR integration has been piloted with two vendors. An eConsult API specification was published to enable all EMR vendors, with OntarioMD certified offerings, to integrate their EMR to the eConsult technology.

Teledermatology

Teledermatology allows doctors to securely transmit images of dermatological conditions (and other relevant health information) to an Ontario-based dermatologist. The dermatologist may then review the file and provide a diagnosis and treatment plan to the referrer.

Teleophthalmology

Teleophthalmology is a program than enables patients diagnosed with diabetes to participate in a retinal screen through their primary care provider (rather than waiting for, or having to travel to, an ophthalmologist). Teleophthalmology is overseen by OTN, and delivered in partnership with hospitals, family health teams, regional health authorities, and community health centres.

Service Owner

Program Contact: eConsult Centre of Excellence

Technology Contact: Ontario Telemedicine Network



End User(s)

Service Providers

Sector(s) Served

- Primary Care
- Specialist Care

Implementation Considerations and Rationale

Where OHTs choose to implement an eConsult solution, OHTs will be expected to leverage the existing eConsult program. Only eConsults facilitated through the Ontario eConsult Program are eligible for the programmatic time-based funding. In the event that an OHT would like to deviate from the existing program, ministry consultation is strongly recommended.

Applicable OHT Policies

- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy
- Patient-Facing Digital Health Policy
- eServices Policy

Administrative and Technical Tools, Services and Programs

<u>Integrated Client Management System (ICMS)</u>

Description

The Integrated Client Management System (ICMS) was developed to support the management of breast screening at Ontario Breast Screening Program (OBSP) sites and to collect the data required to run a provincial screening program.

The ICMS has been used by the OBSP to track breast cancer screening activity at affiliated screening centres for over 20 years. Information in the ICMS is used by sites, regions and the provincial office to facilitate patient care and support the quality assurance program and OBSP evaluation.

The ICMS currently supports the management and reporting for the OBSP for approximately 230 sites across the province.

Service Owner

Cancer Care Ontario

End User(s)

- Administration (OBSP Management/Administrators)
- Providers (Hospital/Clinic)



Sector(s) Served

- Primary Care
- Specialist Care (Ontario Breast Screening Centers and Sites)

Implementation Considerations and Rationale

The ICMS is a centrally managed digital solution provided via Citrix. It provides breast screening sites with the capability to manage the patient's navigation through the screening process and facilitates better awareness and follow-up care for patients undergoing breast screening.

All organizations using the ICMS are required to sign the following agreements: Acceptance of End User Licence, LRA, OBSP Participation.

Applicable OHT Policies

The following policies apply to use of this data:

- Digital Health Information Exchange Policy
- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy

iPort and iPort Access

Description

Microstrategy is a secure enterprise Business Intelligence (BI) platform that provides self-serve analytics and automation of analytics reports and decision support models. iPort and iPort Access are domain-specific products that leverage Microstrategy to provide site, facility and regional reporting on health care system performance and other key performance indicators.

Reporting is currently available for the following areas:

- iPort Cancer reporting for: Provincial Drug Reimbursement Program, Systemic Treatment-QBP (formerly STFM), Regional Cancer Programs, Cancer Surveillance, Pathology, Radiation, Systemic, Specialized Services Oversight, Symptom Management, Psychosocial Oncology and Palliative Care
- iPort Access Reporting for: Access to Care priority areas including emergency, surgery, diagnostic imaging, alternate level of care

Service Owner

Cancer Care Ontario

End User(s)

- Hospital and Health Care Administrators
- Service Providers



Sector(s) Served

- Acute Care
- Emergency Care
- Palliative Care
- Specialist Care

Implementation Considerations and Rationale

These tools and reports are used daily for Ontario health care system performance measurement, management and reporting. These tools could be used by OHTs to measure the effectiveness and performance of providers and services in their regions.

Applicable OHT Policies

The following policies apply to use of this platform

- Digital Health Information Exchange Policy
- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy

ONE ID Credentialing Service

Description

ONE ID is the provincial identity and access management solution which performs identity validation of health care professionals and their staff through established registration and enrolment processes and standards. This includes managing access permissions to digital services such as clinical viewers, OTNhub and ONE Mail.

There are three primary models in use by ONE ID:

- In-Person (Registration Agent) Registrants visit a ONE ID approved registration agent to obtain their ONE ID account.
- College-Based Users request a ONE ID account through their respective college (e.g. the College of Physicians and Surgeons of Ontario).
- Federation (POC Application) Leverage a trusted account issued by a trusted organization (i.e. using hospital credentials).

A ONE ID credential offers the following features:

- (1) A trusted identity solution
- (2) Multifactor authentication
- (3) Online profile management



Service Owner

eHealth Ontario

End User(s)

- IT/Systems Administrators
- Service Providers

Sector(s) Served

- Acute Care
- Community Care
- Home Care
- Long-Term Care
- Pharmacy
- Primary Care
- Public Health

Implementation Considerations and Rationale

ONE ID credentials are recognized as a secure identity solution for accessing PHI by the ministry and numerous health care organizations in Ontario. ONE ID credentials are required for all relevant (regulated professionals) OHT staff.

Partners can leverage single sign on between their POC application and employ contextual sharing as a way of streamlining the user experience and enabling the seamless delivery of healthcare services.

Applicable OHT Policies

Digital Health Access, Privacy and Security Policy

Wait Time Information System (WTIS)

Description

The Wait Times Information System (WTIS) application is a provincial information system dedicated to the collection of near real time Ontario wait times data from hospitals, independent health facilities and surgeons' offices. The WTIS is a web-based application that supports manual data entry by facilities, in addition to enabling automated data capture from other information systems.

The WTIS captures wait times information from acute care facilities/sites in the following clinical service areas:

- Diagnostic imaging (MRI and CT);
- Patients in hospital designated alternate level of care (ALC); and



• Surgery (cancer and non-cancer surgery).

Ontario wait times data is also captured from CIHI's National Ambulatory Care Reporting System (NACRS) information system and used to monitor and report in near real time on ED performance.

The wait times data is used to measure, monitor and report on health system performance to improve access, efficiency and quality of services for Ontarians. The data is published monthly in a variety of performance reports available to health care stakeholders (e.g., ministry, hospitals, surgeon offices). The wait times data for surgery, diagnostic imaging and ED is reported publicly on the HQO website.

Ontario wait times data supports clinicians in:

- Prioritizing access to services using a standardized approach
- Planning a clinical course of care
- Managing wait lists effectively

It is also used to develop evidence-based recommendations necessary to inform decision making by health system planners.

Service Owner

Cancer Care Ontario

End User(s)

- Health Care Providers
- Hospital Administrators

Sector(s) Served

- Acute Care
- Emergency Care

Implementation Considerations and Rationale

Organizations within OHTs likely already contribute data to WTIS in some fashion as it is the primary data collection for wait times performance measurement and management.

Organizations would benefit from increasing their integration level to WTIS as it can decrease their data collection burden and allow them access their performance data faster.

All organizations collecting information on WTIS are required to sign the following agreements: WTIS, DSA and Acceptance of End User License.

Coordinators should also be identified to implement 'train-the-trainer' models for ongoing data reporting, data quality, user registration and data compliance operations. Organizations will



also require clinical and back-office systems and resources for reporting of required data and implementation of expansions to WTIS data collection.

Applicable OHT Policies

The following policies apply to use of this data:

- Digital Health Information Exchange Policy
- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy

Provincial Registries/Directories

OTN Health Service Directory (HSD)

Description

The OTN Health Service Directory (HSD) enables providers to find:

- Patient host sites:
- Specialists who offers their services either: in office (Toronto Central pilot); through video visit; or through eConsult; and
- Non-telemedicine community services (Toronto Central pilot).

The HSD is integrated with data from the Provincial Provider Registry (PPR) and augmented with additional information by the virtual care providers and patient host sites. All updates made to the PPR are automatically populated within the HSD so there is no duplication of effort or information.

Through a Toronto Central pilot involving the University Health Network, an enhanced version of the HSD was developed for primary care physicians, presenting them with a single point through which to access comprehensive and up-to-date information to support their patient referrals (whether virtual or in person). Through this pilot, the data within the HSD is being enhanced with office practice information, sub-speciality service details, clinical areas of interest, wait times, etc. In addition, enhanced data was added to the HSD to include listings of programs offered by community support and community mental health providers. Specialists from Toronto area hospitals may provide information updates directly to the HSD through their annual credentialing process as managed by the CMaRS solution. The HSD is now available outside of the OTNhub, allowing users to search for non-confidential telemedicine and office referral information without the need to login.

The enhanced version of the HSD could be expanded with similar datasets through a partnership between OTN and hospitals or OHTs.



Service Owner

Ontario Telemedicine Network

End User(s)

Service Providers

Sector(s) Served

- Acute Care
- Community Support Services
- Home and Community Care
- Laboratory
- Long-Term Care
- Mental Health/Addictions
- Pharmacy
- Primary Care
- Public Health

Implementation Considerations and Rationale

Use of the OTN HSD's provincial virtual care components is recommended for use by OHTs in enabling patients with digital access to care through video visits and/or supporting transitions in care through eConsult. Use of this directory is necessary to find virtual care providers and patient host sites across the province.

OHTs can also partner with OTN to incorporate details about their provider practices and community program offerings to expand the HSD within their catchment area.

Applicable OHT Policies

- Digital Health Information Exchange Policy
- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy

Provincial Client Registry (PCR)

Description

The Provincial Client Registry (PCR) is the definitive provincial source for a health care client's (patient) identity, facilitating the unique, accurate and reliable identification of individual clients and others who receive care in Ontario, across the disciplines in the health care sector. It also serves as a unique identifier (e.g. health care number) for the linking of health information across all electronic health record enabled clinical information repositories.



The PCR is fed by multiple data sources, including the Ministry of Health Registered Persons Database, hospital sites tracking admissions, discharges, and transfers data, and from local systems participating in health care delivery. Currently, 98% of Ontarians are represented in the PCR.

Use of the PCR and proper issuance/collection of a unique identifier will ensure that a patient's records and information are able to move with them regardless of where they are and where they receive treatment in the province.

Some POC applications are using the PCR as a means of prefilling data fields during the admission – discharge process, shortening the amount of time it takes to get checked in before treatment.

Service Owner

eHealth Ontario

End User(s)

Service Providers as part of a POC application

Sector(s) Served

- Acute Care
- Home and Community Care
- Primary Care
- Specialist Care

Implementation Considerations and Rationale

All OHTs are expected to contribute patient identification information to the PCR for the purpose of updating patient identity and increase the probability of linking with clinical data.

Organizations will be required to follow eHealth Ontario's *Provincial Client Registry Standard Release 2* to ensure that information can be contributed and accessed appropriately.

Applicable OHT Policies

- Digital Health Information Exchange Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy

Provincial Provider Registry (PPR)

Description

The Provincial Provider Registry (PPR) is the authoritative source of information for health profession data for use by digital health solutions. It contains records for ~92% of health regulated providers from more than 20,000 provider organizations. It facilitates the unique and

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The Digital Health Service Catalogue

accurate identification of regulated providers and organizations that deliver health services in Ontario, or who participate in the collection, use, or disclosure of PHI across the continuum of care.

Typical use would include support for professional credentialing and assisting with authenticating data access. Although PPR does not currently contain related services information that would include location, services available, wait time or booking status, work is underway as to how that can be either referenced or include with the PPR.

Service Owner

eHealth Ontario

End User(s)

• Service Providers as part of a POC application

Sector(s) Served

- Acute Care
- Diagnostics
- Home and Community Care
- Laboratory
- Long-Term Care
- Pharmacy
- Primary Care
- Public Health
- Specialist Care

Implementation Considerations and Rationale

All OHTs are recommended to use the PPR as a means of maintaining their own provider service information, which may include validating their staff as regulated professionals where appropriate.

Once the service directory strategy is finalized, OHTs may be asked to supplement service information on providers practicing within their team.

Applicable OHT Policies

- Digital Health Information Exchange Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy



IT and Network Infrastructure Services

Consumer Gateway and/or Provider Gateway

Description

Consumer Gateway and/or Provider Gateways enables direct access to provincial data assets, registries and data assets. The gateway works through the messaging layer between systems (i.e. POC) and facilitates digital requests for patient information through industry standard APIs.

It manages the flow of data being contributed into the integrated health record, as well as the flow of data requested to view by users, and logs access and applies security policies.

Service Owner

eHealth Ontario

End User(s)

• IT Systems Administrators – Information Exchange Tool

Sector(s) Served

All

Implementation Considerations and Rationale

Alignment with the Consumer Gateway and/or Provider Gateway is recommended for OHTs or developers seeking to connect to provincial assets. Users will also be required to comply with eHealth Ontario standards.

Applicable OHT Policies

- Digital Health Information Exchange Policy
- Digital Health Investment and Value for Money Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy
- Clinical Systems Policy
- Patient-Facing Digital Health Policy
- eServices Policy

Innovation Lab

Description

The Innovation Lab provides vendors and innovators an environment in which they can experiment with the interoperability of their assets with respect to provincial systems.

Service Owner

• eHealth Ontario



Mohawk College

End User(s)

- Developers
- IT Administrators

Sector(s) Served

All

Implementation Considerations and Rationale

The Innovation Lab is required for use by applications looking to connect to provincial data sets identified in this document.

Applicable OHT Policies

Digital Health Information Exchange Policy

SPARK

Description

SPARK provides streamlined pathways to support the connection of consumer digital health applications to provincial health data assets. It ensures that the appropriate safeguards are in place to protect PHI through privacy and security risk assessments, an agreements framework and conformance to eHealth Ontario's technical specifications.

Service Owner

University Health Network

End User(s)

• Developers of patient portals and consumer digital health applications

Sector(s) Served

All

Implementation Considerations and Rationale

Consumer digital health applications must use the SPARK pathway to connect to provincial health data assets. This service is currently being piloted for the connection of the myUHN patient portal to OLIS through the Consumer Gateway.

Applicable OHT Policies

N/A



Digital Learning Resources and Reference Tools

Clinical Practice Guidelines, Standards and other Resources

Description

There are several online, evidence-based clinical practice guidelines, standards and additional resources available to both health care providers and patients, including:

- Clinical Practice Guidelines and Standards CCO guidelines are available online and cover the entire cancer care continuum (prevention, screening, diagnostic assessment, treatment, palliative care, end-of-life care and survivorship). This guidance contains recommendations for practice and policy that reflects the most current and best available evidence from health care research and expert opinion.
- Disease Pathway Maps Pathway maps are flowcharts that represent evidence-based best practices in cancer care. Pathway maps are organized by cancer type (e.g., lung cancer) and phase along the cancer continuum (e.g., screening, diagnosis, treatment).
 They are designed for use by health care providers and administrators.
- Ontario Cancer Profiles Ontario Cancer Profiles is a self-serve, interactive mapping tool. It provides the ability to create custom graphs, maps and tables that show recent provincial and regional statistics on select cancer burden, risk factor and screening indicators. This tool allows for the creation of profiles that support targeted cancer control and prevention efforts.
- TobaccoWise TobaccoWise is website that provides resources supporting tobacco cessation with a focus on First Nations, Inuit, Métis and urban Indigenous communities.

Service Owner

Cancer Care Ontario

End User(s)

- Care Providers
- Patients

Sector(s) Served

Specialist Care

Implementation Considerations and Rationale

These resources are available provincially for OHT providers and patients.

Applicable OHT Policies

The following policies apply to use of this data:

Digital Health Access, Privacy and Security Policy



- Digital Health Reporting and Performance Policy
- Patient-Facing Digital Health Policy

Drug Formulary Resources

Description

The Drug Formulary is a publicly available repository of evidence-informed resources that serve as a reference for clinicians, administrators, patients and caregivers. It contains information on approximately 900 evidence-informed treatment regimens that are approved for use in Ontario. It reflects best practices and standardized language and provides information about safe use of drugs in the Ontario cancer system. The Drug Formulary is currently accessed over 47,000 times each month.

Health care providers can access drug and regimen monographs, funding information as well as safety and advice information related to cancer drugs. Patients and their families can learn about cancer drugs and regimens from patient-friendly information sheets.

Service Owner

Cancer Care Ontario

End User(s)

- Administrators
- Patients
- Service Providers (Physicians/Clinicians)

Sector(s) Served

Specialist Care

Implementation Considerations and Rationale

OHTs are expected to leverage the Drug Formulary as a vital reference tool in support of best practices and drug safety within the province.

Applicable OHT Policies

The following policies apply to use of this data:

- Digital Health Information Exchange Policy
- Digital Health Access, Privacy and Security Policy
- Digital Health Reporting and Performance Policy

E-Learning

Description

The Cancer Care Ontario E-Learning site offers primary care providers and other health care professionals (including medical students) a variety of online resources for continuing professional



development with a focus on the Aboriginal Relationship and Cultural Competency Courses. All E-Learning resources are offered free of charge and are accessible anytime, from anywhere, through an online connection.

E-Learning resources include various accredited, self-directed, online courses that provide learners with continuing professional development credits and a certificate of completion. At present, the E-Learning courses are accredited by the College of Family Physicians of Canada for Mainpro+ credits. The number of credits allotted varies by course.

Service Owner

Cancer Care Ontario

End User(s)

Care Providers

Sector(s) Served

Primary Care

Implementation Considerations and Rationale

These resources are available provincially for OHT providers.

Applicable OHT Policies

N/A